

Secondary Analysis Grade 8

Secondary Analysis of Examination Results of Grade 8 Students in 2012



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**Punjab Examination Commission
Link Wahdat Road, Lahore.**

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List of Abbreviation

ASER	Annual Status of Education Report
CRQs	Constructed Response Questions
CTT	Classical Test Theory
MCQs	Multiple Choice Questions
NEAS	National Education Assessment System
PEC	Punjab Examination Commission
PSLSM	Pakistan Social and Living Standards Measurement
SD	Standard Deviation
SLOs	Student Learning Outcomes
UNESCO	United Nations Educational, Scientific and Cultural Organization

Executive Summary

The main objective of this report is to present secondary analysis of the data arising from Grade 8 examination in 2012. The intention was to unpack the information available in the data set of over 1.05 million students to inform research scholars, teacher training institutions (both pre-service and in-service), curriculum developers, textbook writer, school education department and examination agencies to respond to the challenges brought forth by this wealth of data.

Any examination of volume at par with PEC examination of Grade 8 students is not merely meant to decide the promotion of students to next grade, instead contains a wealth of information spurring out to lead quantitative and qualitative improvement in the educational system. PEC conducts examination of six compulsory subjects i.e. English, Islamiyat, Mathematics, Science, Social Studies and Urdu. It is pivotal for the improvement in the quality of the educational system in Punjab that data is used to inform about variations caused by background variables. The analysis of results of Grade 8 students across Punjab and in 36 districts has challenged number of myths that prevail in academia, teachers, parents, administrative staff and public in general.

1. There is mismatch in the results in respect of student performance and physical resources available in the schools. The students of such districts who perceived themselves as developed with better resources, teachers and instructional facilities lagged behind than those who have contrary perception.
2. The results showed marginal difference in performance of the students when segregated on gender basis. There is no evident pattern of students result whether they study in urban or rural schools. In some subjects students of urban schools perform better while contrary in other subjects. This uneven pattern of performance lead us to rethink the genuine factors which actually contributive in students' performance.
3. The evident result regarding performance of students of private schools is better than students of public school is challengeable due to non-obligatory entrance of private schools in PEC examinations while it is compulsory for all public schools. A few number of selected students of considerably better

private schools get their students appear in PEC exam which may be the real cause of their better performance.

4. It is very interesting finding that students with English medium of instruction perform better than students with Urdu medium of instruction. It is strange enough that students are performing better through instruction in a foreign language.
5. The analysis showed a range of content topics in which student have performed poorly across the districts but in different districts students have problem in understanding different parts of the content within a subject. Therefore, it is reasonably explicit that training in same content areas in a cohort of teachers from all districts of Punjab may not be of equal utility to all of them.

Keeping in view the above stated outcomes, following actions are suggested.

1. There is a need to delegate powers at tehsil level at least at the stage of deciding about activities for school and professional development of teachers. Head teachers ought to be responsive to furnish desired needs of the schools as per their context.
2. The policy and then planning can be centralized at provincial level but there is ample evidence to suggest that training related activities and their delivery need to be remain flexible and decided at tehsil level to benefit from the local diversity and needs of the teachers, head teachers, students, parents and community.
3. There is a need to extend provision of PEC exam to appear for all students and schools located in the jurisdiction of whole province. Then it would be justifiable to compare and differentiate among private and public school performance. There are many contributive factors which actually trigger performance of the students. The provision of facilities like infrastructure, teachers, and instructional material need to be provided to all schools irrespective public or private.
4. Medium of instruction has remained a subject of debate since independence of Pakistan. The government should take a rationale decision on the issue rather than political arbitrary decision without proper homework and consensus among stakeholders.

5. The students performing better from schools having dilapidated building, no furniture, electricity and sanitation lead us re-prioritize public spending on education or at least re-think the proportional spending on infrastructure and investment in development of teachers and head teachers.

There is genuine need to limit the urge of providing uniform (factory model) training and support to all teachers without accounting for their specific requirements. The same modules of teacher training used by DSD are of limited use to many of the participants with different backgrounds. There is need to rethink about training content, resource persons and training model with an intention to make it flexible enough to address the diversity in need of stakeholders.



Section I: Introduction

1.1. Purpose

The main objective of this report is to present a secondary analysis of the data arising from Grade 8 examination in 2012. The intention is to unpack the information available in the data set of over 1.05 million students to inform research scholars, teacher training institutions (both pre-service and in-service), curriculum developers, textbook writer, school education department and examination agencies to respond to the challenges brought forth by this wealth of data. It is expected that this information will assist the above mentioned stakeholders to align their activities towards addressing the challenges facing us in improving the quality of education at this crucial stage of educational life.

1.2. Background

In Punjab, the organization that is responsible to conduct high stake terminal examinations to assess students' learning achievements at elementary level is known as Punjab Examination Commission (PEC). Ever since its inception in 2006¹, PEC has been taking year end examinations for all the students at Grade 5 and 8 enrolled in both government and private schools in Punjab. PEC conducted its first examination of Grade 5 in 2006 followed by examination of Grade 5 and 8 in every subsequent year except 2007 (in the year 2007, the exam was revoked due to leakage of exam papers). Therefore the first examination for Grade 8 was conducted in 2008 and since then it has become a yearly activity.

The mission of PEC as per PEC Act 2010 is “*to promote quality and equity in education by providing fair and valid information about students learning level and related services that can be used to improve students' knowledge, skills, learning and to support education and professional development*”². This secondary analysis of examination results for grade 8 in year 2012 is to further the probability of achieving the aforementioned mission.

Any examination of volume at par with PEC examination of Grade 8 students is not merely meant to decide the promotion of students to next grade, instead contains a wealth of information spurring out to lead quantitative and qualitative

¹ Vide notification No. SO(Schools)(PEC) 1-1/2006

²<http://www.pec.edu.pk/Mission.html>

improvement in the educational system. PEC held examination of six compulsory subjects i.e. English, Islamiat, Mathematics, Science, Social Studies and Urdu. The tests were constructed using two way grid having content areas on y-axis and BLOOM's level of learning on x-axis. This provided a blue print of test ensuring the coverage and order of learning in desired proportion in test of each subject. The question paper comprised Multiple Choice Questions (MCQs) and Constructed Response Questions (CRQs) presumably addressing low order learning (Knowledge and Understanding) and higher order learning (Application, Analysis, Synthesis and Evaluation)¹.

The test were constructed using BLOOM's taxonomy as cognitive framework to measure student order of learning (lower/higher order) based on student response in hierarchically organized examination questions. The student performance was calibrated using RASCH model (one-parameter) enabled conversion of student performance into interval scores for subsequent analysis and interpretation across the data set.

Multiple test forms (versions) were used in PEC examination to ensure the secrecy of the tests and reduce the probability of anticipated malpractices in the examination. The use of multiple test forms may add to some conceptual and practical challenges regarding equating of scores, which will be discussed in the report later on.

It is pivotal for the improvement in the quality of the educational system in Punjab that data is used to inform about variations caused by gender, locale, subject, type of school (private/public), student type (private/regular), and medium of instruction (English/Urdu) in the performance of students.

1.3. Methodological Issues

In large scale testing there are always technical and administrative factor beyond the control of examining agency which needs to be understood and used as caution while reading the results of secondary analysis.

i. Assumption of parallelism of test forms

There were six test forms used for each subject in Grade 8 examination. Each

¹ The labelling is based on the 'Bloom's Taxonomy',

test form was used in six districts. It was assumed that tests are same in their distribution items by content areas and level of learning measured. This provided base for comparability of scores across districts. The analysis of test form for test difficulty and discrimination for each subject provided evidence contrary to this assumption which asks for careful use of mean achievement scores across the districts.

ii. Considerable inconsistencies in data

The data entries were apparently inconsistent across variable when cross tabulated for related variables but no manipulation/adjustment were made to keep the data as original as possible. For example, in schools where students took both Islamiat and Social Studies tests in English medium were labeled as URDU medium schools and vice versa which is quite unlikely to happen.

iii. Missing data

A large number of data (up to 4% in some variables like medium of instruction) was found missing in test taker background information which might have affected the mean and variance of affected variables. As the missing data largely happened to be in background variables thus missing data replacement techniques were not used.

iv. Inter-group Comparisons

The examination was conducted to the entire population of Grade 8 students in Punjab. Thus mean scores of student performance and cross-tabs between variables was used for inter-group comparisons (including interactions). Application of inferential statistics was not required with census data.

v. Approximations in labeling of questions against BLOOMs Taxonomy and SLOs

The analysis presented in section III (3.5 and 3.6) about student achievement by SLOs and cognitive levels of learning are based on labeling of test items. The labeling is prepared post-examination by experts at PEC instead of test developers prior to test development. This suggests table of specification was also developed retrospectively by experts using backward method after

labeling of tests items.

1.4. Scale of the Examination

The examination involved 1.05 million students of grade 8, taking 6 compulsory subject papers. The distribution of students with respect of background variables is shown in Figure 1.1. The students appeared in approximately¹5,519 examination centers.

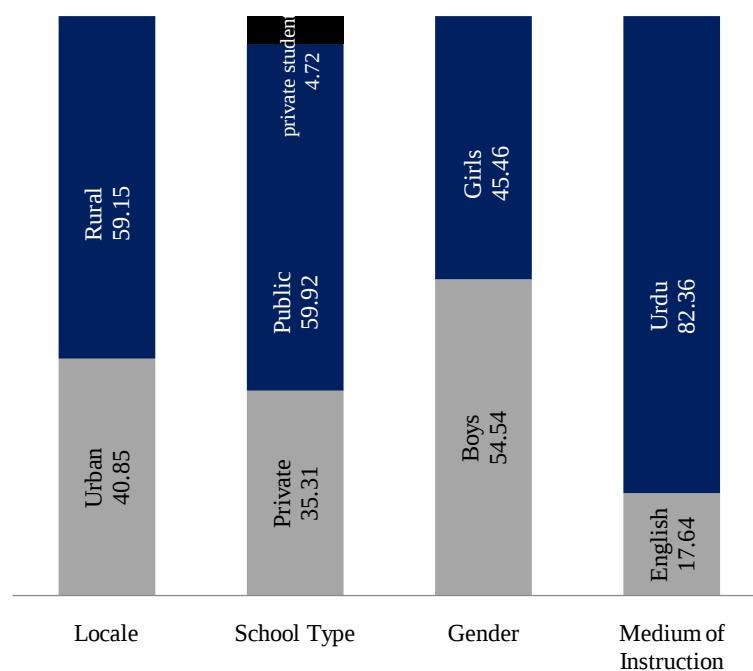


Figure 1.1: Distribution of test takers by background variables

1.5. Summary of the Subject-wise Result

Figure 1.2 shows that Students performed best in Islamiyat across the province. In rest of the subjects the average performance remained between 50-60%. The variations in scores (standard error) is almost uniform in range across the subjects.

¹ There were few examination centers in which apparently less than 10 students appeared for examination. This might be due to data entry omissions/errors. The reported number of centers include such centers although there number is negligible.

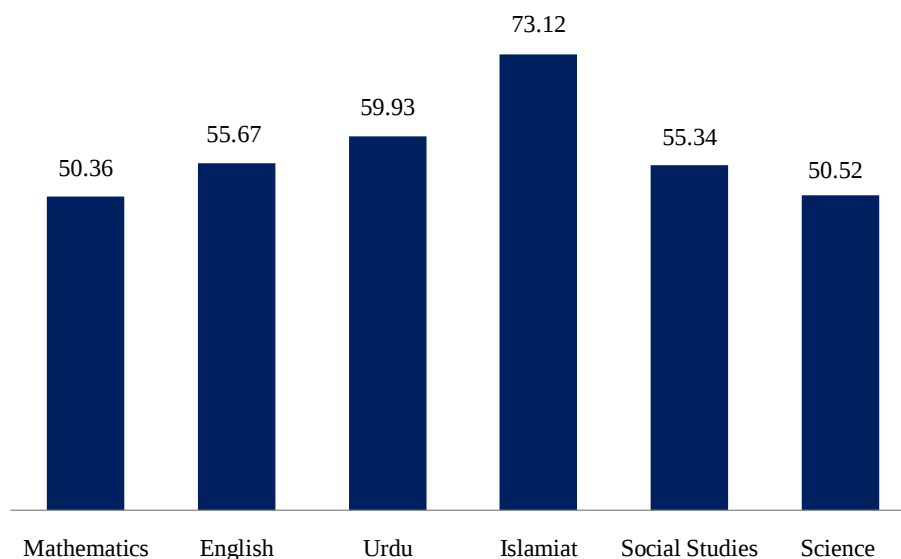


Figure 1.2: Overall performance of Grade 8 students by subject in Punjab

There is a need to look into the reasons of relatively low performance in mathematics and science which is 50.36% and 50.52% respectively. The performance in languages (English and Urdu) is around also needs attention. (See annexure 1 for details)

Alongside analysis of mean scores in each subject it is valuable to know about the percentage of students able to cross the threshold of 33%¹ in each subject. Table 1.1 shows the pass percentage of students by subject². The table is organized by school type and gender, gives a comparison of results. The total number of students appeared in examination was approximately 1.05 million but the table 1.1 shows the result of 1.04 million students as the information of background variables i.e. school type and/or gender was not available in data set.

¹ The percentage score used as criterion to declare a student pass in any subject

² The pass percentage by subject is higher than the overall pass percentage of students as a student fail in a subject is recorded as fail in overall result.

Table 1.1

Subject wise Pass Percentage of Students in Grade 8 Examination

School	Gender	N	Math	English	Urdu	Islamiat	Social Studies	Science
Public	Boys	3,28,467	80.3	86.9	96.3	99.8	92.78	83.8
	Girls	2,71,895	81.7	87.3	98.1	99.9	93.9	86.1
Private	Boys	1,94,023	81.9	87.3	96.1	99.8	92.7	84.6
	Girls	1,62,588	83.5	88.2	98.5	99.9	94.2	87.2
Private Students	Boys	26,927	65.4	70.9	90.3	99.4	83	68.4
	Girls	20,235	68.3	74.6	95.7	99.6	85.8	73.5

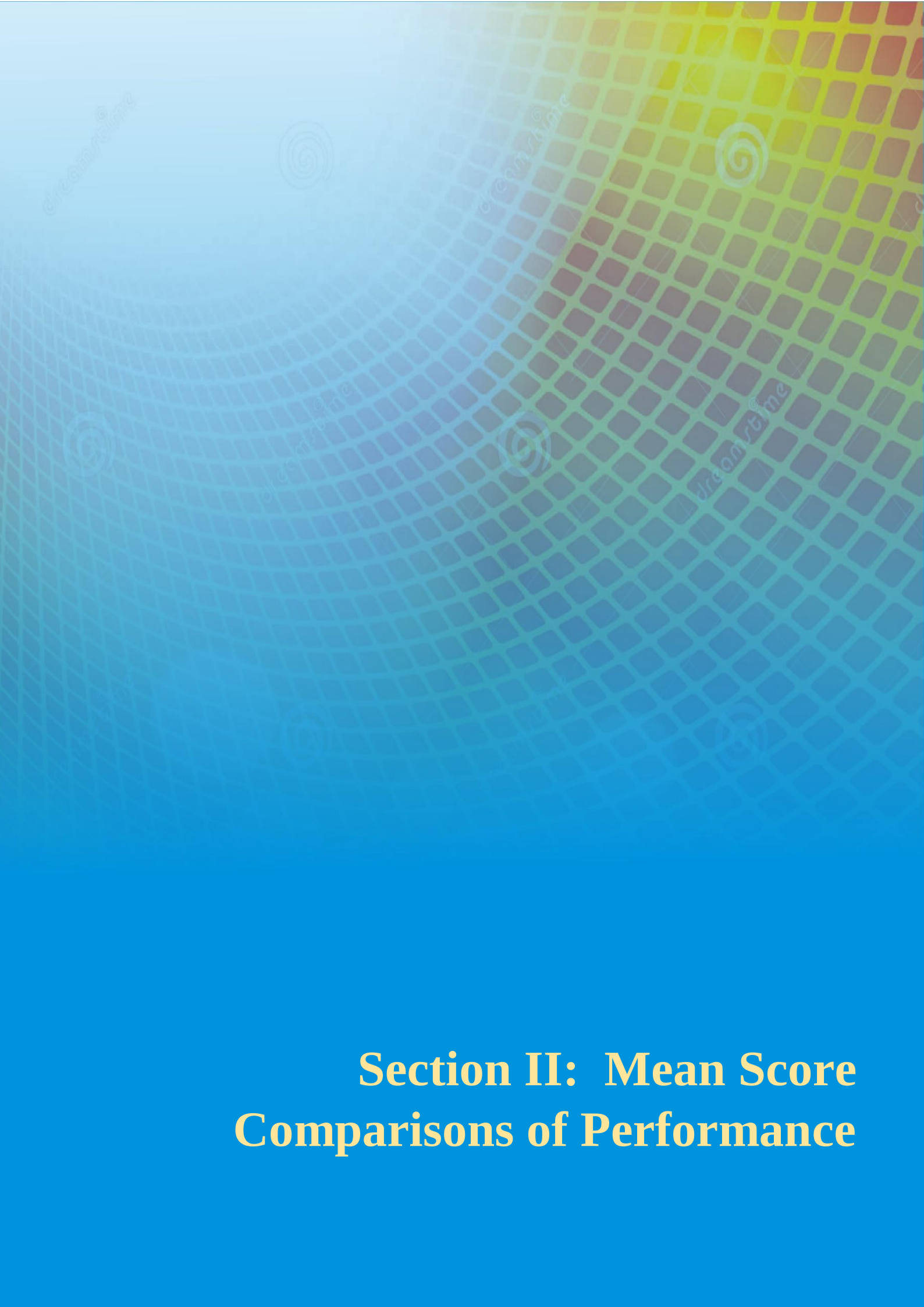
The pass percentage of girls is higher in private schools as compared to public schools and students appeared as private candidates. The difference in pass percentage¹ by schools type is 1.60, 0.9, 2.4, 0.10, 1.50 and 2.60 percent in private schools, 1.40, 0.40, 1.80, 0.10, 1.12 and 2.30 percent in public schools and 2.90, 3.70, 5.40, 0.20, 2.80 and 5.10 in students appeared as private candidates in Mathematics, English, Urdu, Islamiat, Social Studies and Science respectively². Students found Islamiat as the easiest subject while science and mathematics as difficult. The overall pass percentage of students of private schools (91.16) is higher than students of public school (90.57) and students appeared as private candidates (81.24)³.

Further breakup of results by school type, gender, locale and medium of instruction in a cross tabulated form is available in annexure of this report (See annexure 2 for details).

¹ Percentage difference = Percentage of girls passed examination – Percentage of boys passed examination, in each subject. The negative mean difference shows better performance by boys.

² This information can be used to gauge the performance of schools but not as quality of student learning. The percentages only show the number of students able to cross the minimum score to qualify a subject.

³ This information can be used to gauge the performance of schools but not as quality of student learning. The percentages only show the number of students able to cross the minimum score to qualify a subject.



Section II: Mean Score Comparisons of Performance

This section presents student performance data distributed by gender, locale, school type and medium of instruction. The purpose of analysis in this section is to bring forth the importance of background variable in relation to the student performance. Knowing that there are several variables other than these background variables, these background variables should not be treated as causation of variation in performance solely.

2.1. Comparison of Student Performance by Districts

The figure represents comparison of student mean performance (in percentage) from all 36 districts of Punjab. The figure is based on total number of students appeared in examination irrespective of their gender, locale, school type, and medium of instruction. The data is presented from highest to lowest performing districts from left towards right. The range of mean difference is 21.52 percent.

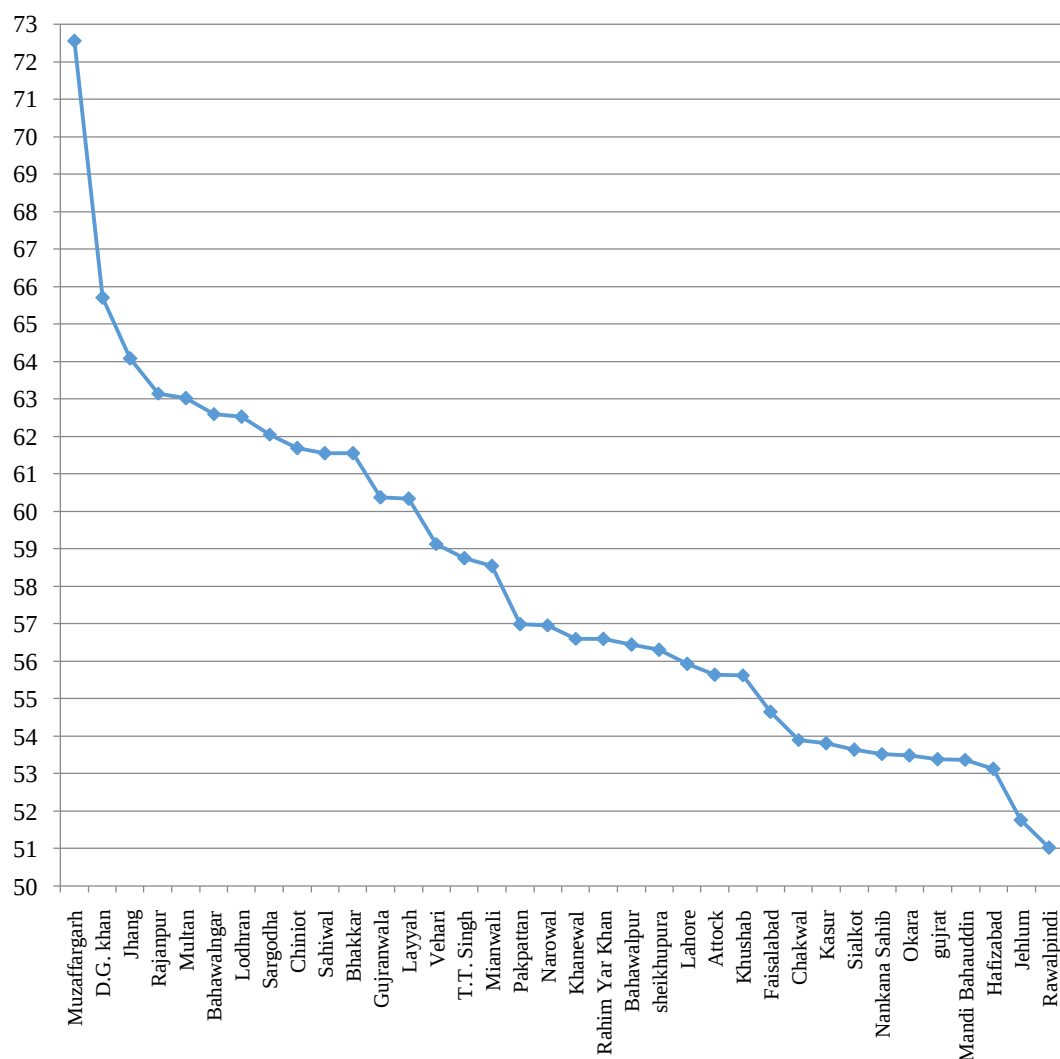


Figure 2.1: Comparison of student performance by district

2.2. Comparison of Student Performance by Districts and Subjects

There is considerable variation in the performance of students by districts. Therefore, it is not possible to rank districts on the basis of student performance in each subject in same graph. Figure 2.2 shows the distribution of mean scores of the students in all six subjects across all 36 districts of the Punjab. The students overall average performance is best in Islamiat (mean= 73.73). The overall mean student performance is low in mathematics (mean= 50.79) and science (mean= 51.03) across districts. In Urdu (mean= 60.39) and English (mean= 56.30), and social studies (mean= 56.16) is with ± 5 points of 60%¹ (For details by districts see annexure Table A4)

The above mentioned variation indicates the need for identification of district specific subject areas in which teachers need support and then design tailored trainings for them aiming at improving the deficiencies. It can be useful if best school teachers from high performing districts are invited to share their subject knowledge and pedagogies with teacher from districts where students performed relatively low. (see section 3.4 & annexure 4)

¹¹¹¹ 60% is used as reference point because in most of the public examination, it is used as cut mark for declaring first division.

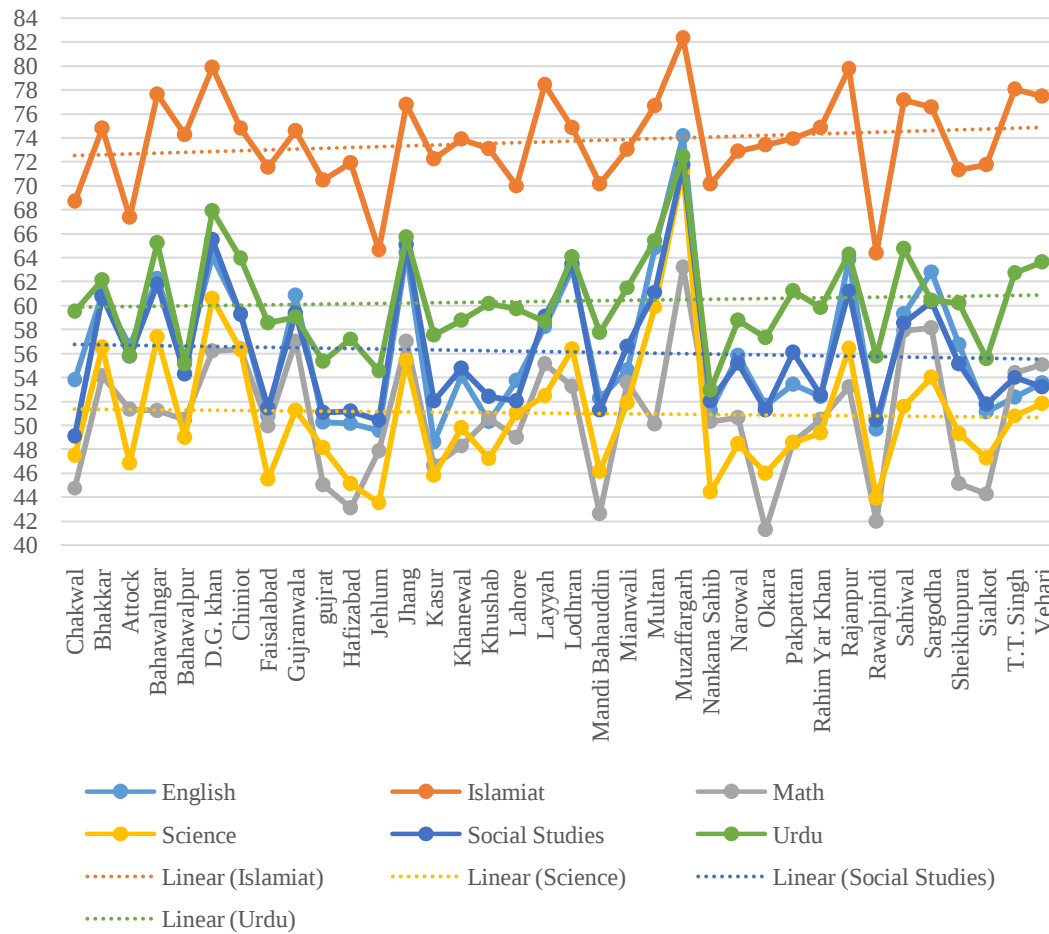


Figure 2.2: Comparison of student performance by districts by subject

2.3. Comparison of Student Performance by Gender

It is worth noting that mean performance of students at provincial level is not enviable as student performance irrespective of gender is below 60% in all subject except Urdu and Islamiyat.

Table 2.1

Comparison of Grade 8 students' performance in all six subjects by gender

Subject	2012			
	Boys (N=5,67,692)		Girls (N=4,73,126)	
	Mean	SD	Mean	SD
Mathematics	50.42	17.69	50.28	16.86
English	55.86	17.99	55.44	17.56
Urdu	58.30	13.56	61.90	12.36
Islamiyat	71.42	11.09	75.17	10.41
Social Studies	55.21	14.47	55.49	13.79
Science	49.79	15.54	51.40	15.58

The comparison shows that girls have outperformed boys in all subjects except mathematics and English. The performance in mathematics and English where boys performed better but the mean difference is very marginal. The mean difference in performance by gender is 0.14, 0.42, - 3.60, -3.75, -0.28 and -1.61¹ in Mathematics, English, Urdu, Islamiat, Social studies and Science respectively. The difference in favor of girls' performance aligns with the trend visible in other national and international studies²³ but still this gradually increasing gender divide needs attention. (See annexure 6 for details)

2.4. Comparison of Student Performance by School Type

Table 2.2 shows that students of private schools have achieved higher mean scores in all six subjects. The distribution of number of students showed that private schools enroll more percentage of girl students (47.94 %)⁴ as compared to girls in public schools (43.79%)⁵. This factor has bearing on the comparison of performance by school type in favor of private schools. The difference in performance of private and public school is partially attributable to this gender factor instead of school type.

Table 2.2

Comparison of Grade 8 students' performance in all six subjects by school type

Subject	2012					
	Private N=3,56,757		Public N=6,00,619		Private Students N=47,174	
	Mean	SD	Mean	SD	Mean	SD
Mathematics	51.20	17.126	48.60	15.857	41.98	15.701
English	56.57	17.688	54.10	16.613	46.49	17.287
Urdu	60.51	13.034	58.82	12.214	53.10	13.180
Islamiat	73.52	10.849	72.32	10.384	68.09	11.572
Social studies	56.05	14.089	54.09	13.160	48.07	13.849
Science	51.29	15.413	48.92	14.158	42.55	14.259

The comparison shows that private school students have outperformed public sector school students' in all subjects. The mean difference in performance is 2.6, 2.47, 1.69, 1.2, 1.96 and 2.37⁶ in Mathematics, English, Urdu, Islamiat, Social studies

¹ Mean difference = Mean Score of Boys – Mean Score of Girls, in each subject. The negative mean difference shows better performance by girls.

² Niederle, M. and Vesterlund, L (2010). Explaining the Gender Gap in Math Test Scores: The Role of Competition, *Journal of Economic Perspectives*, 24(2), 129-144

³ How are girls doing in school – and women doing in employment – around the world?, OECD report 2012 based on data from PISA, available at <http://www.oecd.org/education/skills-beyond-school/49986459.pdf>

⁴ Private schools enroll a total of 3,56,757.

⁵ Public schools enroll a total of 6,600,619.

⁶ Mean difference = Mean Score of Private school students – Mean Score of Public school students

and Science respectively. Private school students performed better in subjects like Urdu and Islamiat which are generally perceived as weak subject among private school students. The difference in favor of private school students is supported by evidence in other similar national studies (ASER¹, 2012; UNESCO², 2002). (See annexure 5 for details)

2.5. Comparison of Student Performance by Medium of Instruction

It is assumed that students who opted for examination in English language in all subject except Urdu, Islamiat and Social Studies have received instruction in English language. The students studying in English medium schools performed better in all subjects. Students performing better while studying or giving examination in a language other than their native/national language is psychologically and linguistically unsupported phenomenon but in case of Pakistani this have been consistently evidenced. This is more of a cultural factor that students with relatively better intellectual capabilities and socio-economic status tend to join English medium schools. Their better performance is thus attributed to medium of instruction which can be partially incorrect.

Table 2.3

Comparison of Grade 8 students' performance in all six subjects by medium of instruction

Subject	2012			
	English N=1,75,503		Urdu N=8,19,527	
	Mean	SD	Mean	SD
Mathematics	53.76	18.05	50.20	16.99
English	62.20	17.31	54.74	17.48
Urdu	62.96	12.92	59.65	13.00
Islamiat	75.45	11.16	72.90	10.75
Social studies	56.53	14.19	55.46	14.04
Science	51.39	17.63	50.77	15.03

The comparison shows that students having English as medium of instruction have outperformed students taught in Urdu as medium of instruction in all subjects.

¹¹ For further reading please see Annual Status of Education Report 2012, published by Idera-i-Taleem-o-Aaghi, Lahore, pages 4-11. Report is available at <http://aserpakistan.org/report>.

² UNESCO report on Learning Achievement in Schools of Pakistan: A Quest for Quality Education 2002, pages 23-26

The mean difference in performance is 3.56, 7.46, 3.31, 2.55, 1.07 and 0.62¹ in Mathematics, English, Urdu, Islamiat, Social studies and Science respectively. The mean difference in all subjects is significantly higher in favor of English medium school students (see annexure 7 for details).

2.6. Comparison of Student Performance by Locale

The result showed that locale is not source of variation in performance of students in majority of the subject. The results reveal a mix trend across the subjects. The students from urban schools performed lower in mathematics, social studies and science while students from rural settings performed relatively lower in English, Urdu and Islamiat. The mean differences are marginal (less than 0.5) in Urdu, Islamiat and science.

Table 2.4

Comparison of Grade 8 students' performance in all six subjects by locale

Subjects	2012			
	Urban N = 4,23,542		Rural N = 6,13,197	
	Mean	SD	Mean	SD
Mathematics	50.17	17.51	50.51	17.20
English	55.92	18.07	55.50	17.61
Urdu	60.44	13.12	59.59	13.17
Islamiat	73.48	11.32	72.89	10.68
Social Studies	54.71	14.33	55.79	14.03
Science	50.23	16.33	50.73	15.04

The mean difference in the performance by locale is in favor of students from rural area in Mathematics, Social Studies and Science. These are subjects in whom the level of performance at provincial level is quite low, so, students from rural areas performed better in these subjects. The mean difference in performance is -0.34, 0.42, 0.85, 0.59, -1.08 and -0.50² in Mathematics, English, Urdu, Islamiat, Social studies and Science respectively. This result is contrary to traditional belief that students from urban schools perform better because they have better opportunities and facilities.

¹ Mean difference = Mean Score of students having English as medium of instruction – Mean Score of students having Urdu as medium of instruction. The negative mean difference in Science shows better performance of students having Urdu as medium of instruction.

² Mean difference = Mean Score of students urban schools – Mean Score of students rural schools. The negative mean difference in scores shows better performance by rural students

2.7. Interaction Effects

Table 2.5 shows the interaction effects between different demographic variables and can be used by user according to their need.

Table 2.5

Subject wise Mean Score of Students in Grade 8 Examination 2012 on the basis of demographics (two three liner)

School	Gender	Locale	Medium	N	Total		Math		English		Urdu		Islamiat		Social Studies		Science	
					M	SD	M	SD	M	SD	M	SD	M	SD	M	SD	M	SD
Private	Boys	Urban	English	3190	304.94	67.06	43.19	16.09	51.59	17.68	53.79	12.92	67.80	11.65	47.79	13.88	40.77	15.72
			Urdu	6685	288.04	63.52	40.67	15.33	43.77	16.93	50.69	13.12	65.39	11.60	46.43	14.04	41.08	13.96
		Rural	English	834	311.28	65.97	45.12	16.72	51.80	16.66	53.67	13.42	68.45	11.42	49.54	14.45	42.69	15.36
			Urdu	14216	300.19	64.64	42.86	16.15	47.08	17.61	51.59	13.43	66.68	11.21	48.90	13.96	43.07	13.90
	Girls	Urban	English	2207	320.97	64.07	44.58	15.26	53.28	16.67	58.51	11.72	72.46	11.18	49.69	13.01	42.44	15.49
			Urdu	5821	303.44	63.47	42.00	15.13	44.89	16.00	55.26	12.19	70.03	11.48	47.58	13.31	43.68	14.13
		Rural	English	613	309.26	67.88	41.50	15.86	50.05	18.23	57.00	13.13	71.24	10.34	48.59	12.71	40.87	15.77
			Urdu	10345	310.58	62.22	42.84	15.24	46.73	16.73	55.63	12.42	71.07	10.70	49.65	13.49	44.66	13.71
Public	Boys	Urban	English	25382	357.13	69.15	53.50	17.35	62.08	16.93	61.10	12.51	73.63	11.01	56.21	14.02	50.60	16.86
			Urdu	45429	337.56	70.61	49.49	17.21	54.02	18.02	58.27	13.48	71.19	11.35	54.76	14.57	49.83	15.40
		Rural	English	7344	365.73	69.31	55.81	18.11	63.24	16.55	61.84	13.04	74.45	10.85	58.20	14.26	52.18	15.85
			Urdu	106225	348.23	68.44	52.22	17.42	56.90	17.58	58.98	13.46	71.94	10.64	56.82	14.23	51.37	14.86
	Girls	Urban	English	21887	369.97	66.66	54.27	16.50	62.90	16.30	65.43	11.47	77.80	10.20	57.02	13.11	52.55	16.89
			Urdu	45616	349.28	68.05	50.24	16.50	54.38	17.08	62.02	12.03	75.13	10.60	55.31	13.88	52.20	15.39
		Rural	English	5088	366.70	70.15	53.50	17.10	62.36	17.63	65.06	12.45	77.18	9.74	56.71	13.42	51.88	17.02
			Urdu	83158	354.63	64.40	51.24	16.31	56.04	17.14	62.23	12.10	75.43	9.94	56.98	13.47	52.72	14.59

Private Students	Boys	Urban	English	41954	343.18	61.29	50.44	16.19	59.58	16.10	59.19	11.81	72.11	10.56	53.94	13.25	47.92	15.71
			Urdu	77814	328.43	61.58	47.55	15.97	52.21	16.88	56.99	12.59	70.32	10.71	53.26	13.55	48.09	14.12
		Rural	English	11304	347.65	61.42	51.95	17.00	59.98	15.93	59.18	12.45	72.49	10.55	55.37	13.51	48.67	14.80
			Urdu	179673	336.27	59.83	49.62	16.22	54.60	16.64	57.28	12.59	70.71	10.16	54.89	13.28	49.17	13.68
	Girls	Urban	English	34261	351.32	58.82	50.29	15.12	59.44	15.58	63.00	10.77	76.12	9.91	54.32	12.38	48.15	15.29
			Urdu	76985	337.44	59.33	47.83	15.16	51.85	15.76	60.48	11.22	74.09	10.14	53.37	12.85	49.82	14.09
		Rural	English	7853	346.27	63.10	48.94	16.08	58.32	16.77	62.33	11.87	75.11	9.68	53.95	12.67	47.62	15.76
			Urdu	140763	342.15	56.96	48.72	15.19	53.37	16.12	60.52	11.49	74.31	9.61	54.91	12.66	50.31	13.52

Table 2.5 shows that Boys in English medium schools have outperformed boys in Urdu medium schools in all subjects except science in both urban and rural private schools. Same trend was followed in girls in private schools of urban area whereas in rural area Urdu medium schools scored better in mathematics social studies and science.

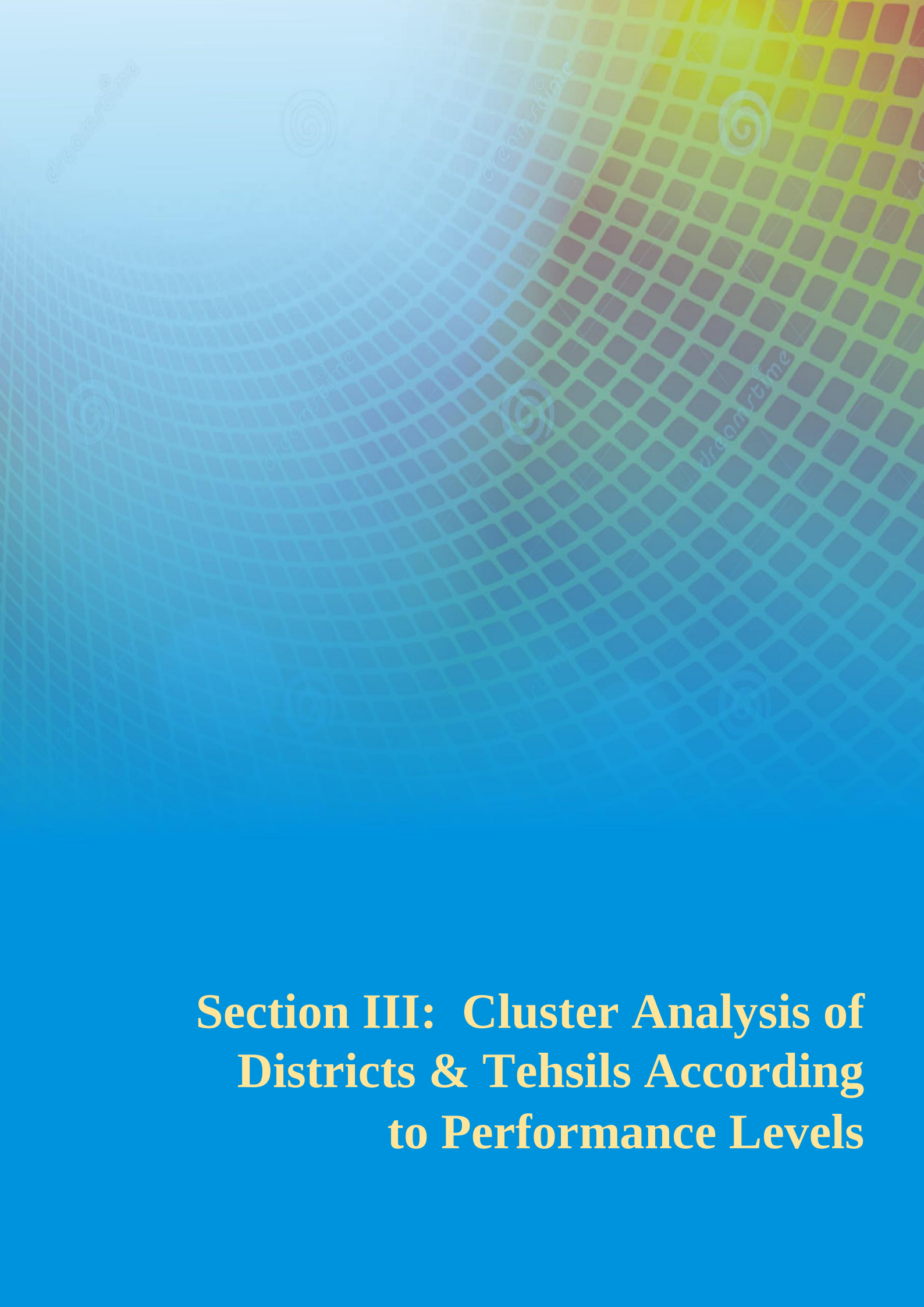
Girls in English medium schools have outperformed girls in Urdu medium schools in all subjects in both urban and rural public schools and private candidates. Same trend was observed in girls in public schools and private candidates of urban area whereas in rural area Urdu medium schools scored slightly better in social studies and science.

In private schools girls from English medium schools outperformed boys from English medium in urban areas whereas boys from English medium schools outperformed girls from English medium schools in rural areas except in Urdu and Islamiat. Girls from Urdu medium schools in rural area performed better than boys from rural area except in Math and English. Girls from Urdu medium schools outperformed boys from Urdu medium in urban areas in all subjects

In public schools of urban areas girls performed better than boys in both English and Urdu medium. In rural areas boys of English medium schools performed slightly better except Urdu and Islamiat. In Urdu medium schools of rural areas boys performed better in Maths and English and girls performed better in rest of the subjects.

In private candidates girls performed better in all subjects except in math and English in English medium schools and except in English in Urdu medium schools of urban areas.

Among Private candidates of rural areas boys performed better in all subjects except Urdu in English medium schools and in Urdu medium schools girls performed better in Urdu, Islamiat and social studies and boys performed better in math English and science



Section III: Cluster Analysis of Districts & Tehsils According to Performance Levels

The focus of this section of the report is to give comparative ranks of the districts with reference to student cumulative performance (in percentage) alongside ranking based on subject mean scores. Tehsil ranks within districts are also presented to distinguish between tehsils on the basis of student performance. Furthermore, an analysis of tehsil ranking at provincial level irrespective of their respective districts is also given to compare performance of students' tehsil level in provincial framework.

3.1 Classification of Districts According to Performance

Table 3.1 shows that students in Muzaffargarh were the best performers in the province. They not only ranked first in the province on the basis of overall performance in all six subjects but remained on same standing in all subjects individually.

Table 3.1

District Ranks based on Students Cumulative Performance and Subject Performance

District Name	District Rank	Subject-wise Rank					
		English	Islamiat	Math	Science	Social Studies	Urdu
Muzaffargarh	1	1	1	1	1	1	1
D.G. Khan	2	4	2	7	2	2	2
Jhang	3	3	9	5	9	3	3
Rajanpur	4	5	3	14	6	6	7
Multan	5	2	10	22	3	7	4
Bahawalngar	6	8	6	16	4	5	5
Lodhran	7	6	13	13	7	4	8
Sargodha	8	7	11	2	10	9	15
Chiniot	9	11	14	6	8	11	9
Sahiwal	10	12	8	3	14	13	6
Bhakkar	11	9	15	11	5	8	12
Gujranwala	12	10	16	4	15	10	21
Layyah	13	13	4	8	11	12	24
Vehari	14	22	7	9	13	22	10
T.T. Singh	15	25	5	10	17	21	11
Mianwali	16	18	22	12		14	13
Pakpattan	17	23	18	25	22	15	14
Narowal	18	16	23	17	23	17	23
Khanewal	19	19	19	26	18	19	22
Rahim Yar Khan	20	24	12	19	19	23	18
Bahawalpur	21	17	17	20	21	20	34
Sheikhupura	22	14	28	29	20	18	16
Lahore	23	21	32	24	16	26	19
Attock	24	15	34	15	28	16	30
Khushab	25	31	21	18	27	24	17
Faisalabad	26	30	27	23	32	29	25
Chakwal	27	20	33	31	25	36	20
Kasur	28	36	24	28	31	27	27
Sialkot	29	29	26	32	26	28	32
Nankana Sahib	30	28	30	21	34	25	36
Okara	31	27	20	36	30	31	28
Gujrat	32	32	29	30	24	33	33
Mandi Bahauddin	33	26	31	34	29	30	26
Hafizabad	34	33	25	33	33	32	29
Jhelum	35	35	35	27	36	35	35
Rawalpindi	36	34	36	35	35	34	31

There is some correspondence between aggregate rank of the districts and their subject based ranking. The districts on higher ranks on aggregate basis (see annexure 4 for district mean scores used as basis for ranking in table 3.1) are on nearby ranks in the subject based ranking. Few exceptions can be noticed in the table like Rajanpur (4th), Multan (5th) and Bahawalnagar (6th) are significantly higher in aggregate district ranks as compared to their subject ranks in Mathematics. Multan ranked 5th in aggregate ranking while 22nd in Mathematics and 10th in Islamiyat. Rajanpur ranked 4th in aggregate provincial rank but performed considerably below in Mathematics (ranked 14th). Bahawalnagar ranked 16th in mathematics in comparison to 6th in aggregate rank in province. There are few more similar anomalies visible in the table 3.1 for other subjects as well, especially in top rank districts at provincial level. These can be questions of interest for further researches (see annexure 4 for details).

3.2 Classification of Tehsils within respective Districts According to Performance

District ranks are representative measure of performance of students' from a particular district but owing to the diversity within district, it was pertinent to analyze further at tehsil level to explore within district variations in performance. A detailed analysis of tehsils within districts reveals the aggregate ranks are affected by results of a certain tehsil within district performing distinctively better or poorer than rest of the tehsils in that district. The change in ranks because of this phenomenon appears to affect the aggregate rank within ± 5 places (Please see annexure 8 for details).

Table 3.2

Ranks of Tehsil within their Districts Based on Students overall mean scores in Grade 8 Examination 2012

District	Rank	Tehsil	English	Islamiat	Math	Science	Social Studies	Urdu
Muzafargarh	1	Alipur	1	1	1	1	1	1
	2	Muzaffargarh	2	2	3	3	2	2
	3	Jatoi	3	3	2	2	3	3
	4	Kot Adu	4	4	4	4	4	4
D.G. Khan	1	Taunsa	1	1	1	1	1	1
	2	D.G. Khan	2	2	2	2	2	2
Jhang	1	Jhang	2	1	3	1	1	1
	2	Ahmadpur Sial	1	2	2	3	2	2
	3	Shorkot	3	3	1	2	3	3
Rajanpur	1	Rojhan	1	3	1	3	1	1
	2	Jampur	2	2	2	1	2	2
	3	Rajanpur	3	1	3	2	3	3
Multan	1	Multan Saddar	1	1	2	4	2	1
	2	Jalalpur Pirwala	2	2	1	2	1	2
	3	Shujabad	3	4	3	1	3	3
	4	Multan	4	3	4	3	4	4
	5	Multan City	5	5	5	5	5	5
Bahawalnagar	1	Minchinabad	1	1	1	1	1	1
	2	Chishtian	3	2	2	3	2	2
	3	Bahawalnagar	2	3	4	4	3	3
	4	Fort Abbas	4	5	3	2	4	4
	5	Haroonabad	5	4	5	5	5	5
Lodhran	1	Lodhran	1	1	1	1	1	1
	2	Karor Pacca	2	2	2	3	2	2
	3	Dunyapur	3	3	3	2	3	3
Sargodha	1	Sahiwal	1	2	1	1	1	1
	2	Bhalwal	2	4	2	3	3	3
	3	Shahpur	5	1	3	2	2	5
	4	Sillwali	3	3	5	4	4	2
	5	Sargodha	4	5	4	5	5	4
Chiniot	1	Chiniot	1	2	1	1	2	1
	2	Bhowana	3	1	2	2	1	2
	3	Lalia	2	3	3	3	3	3
Sahiwal	1	Chichawatni	1	1	1	1	1	2
	2	Sahiwal	2	2	2	2	2	1
Bhakkar	1	Mankera	1	1	3	1	1	1
	2	Kallar Kot	2	3	1	2	2	3
	3	Darya Khan	3	4	2	3	4	2
	4	Bhakkar	4	2	4	4	3	4
Gujranwala	1	Kamoke	1	4	1	1	4	3
	2	Gujranwala	3	1	2	3	1	2
	3	Noshera Virkan	2	3	3	4	2	1
	4	Wazirabad	4	2	4	2	3	4
Layyah	1	Layyah	2	1	1	2	1	1
	2	Karor Lalisan	1	2	2	1	2	2
	3	Chaubara	3	3	3	3	3	3
Vehari	1	Burewala	1	1	1	2	1	1

District	Rank	Tehsil	English	Islamiat	Math	Science	Social Studies	Urdu
	2	Mailsi	3	2	2	1	2	2
	3	Vehari	2	3	3	3	3	3
Toba Tek Singh	1	Toba Tek Singh	3	2	2	1	1	1
	2	Gojra	1	3	1	2	2	2
	3	Kamalia	2	1	3	3	3	3
Mianwali	1	Mianwali	1	1	2	3	1	1
	2	Isa Khel	2	2	1	2	2	3
	3	Piplan	3	3	3	1	3	2
Pakpattan	1	Pakpattan	1	1	1	1	1	1
	2	Arifwala	2	2	2	2	2	2
Narowal	1	Shakarghar	1	1	1	1	1	1
	2	Zafarwal	2	3	2	2	2	2
	3	Narowal	3	2	3	3	3	3
Khanewal	1	Kabirwala	1	3	1	1	1	1
	2	Mian Channu	2	1	2	2	2	2
	3	Khanewal	3	2	3	3	3	3
	4	Jahanian	4	4	4	4	4	4
Rahim Yar Khan	1	Khanpur	1	1	1	1	1	1
	2	Liaquatpur	2	3	3	2	2	3
	3	Sadiqabad	3	2	4	4	3	2
	4	RahimYar Khan	4	4	2	3	4	4
Bahawalpur	1	Hasilpur	1	1	1	1	1	1
	2	Yazman	3	2	2	2	2	2
	3	Ahmadpur East	4	4	3	3	3	4
	4	Bahawalpur	2	3	4	5	4	3
	5	Kairpur Tamewali	5	5	5	4	5	5
Sheikhupura	1	Sheikhupura	1	2	1	1	1	1
	2	Muridke	2	3	2	2	2	3
	3	Sharaqpur	3	1	3	4	3	2
	4	Ferozwala	4	4	4	3	4	4
Lahore	1	Lahore City	2	1	1	2	1	1
	2	Cantt	1	2	2	1	2	2
Attock	1	Jand	1	2	1	2	1	3
	2	Fatah Jang	2	3	2	1	2	1
	3	Pindi Gheb	3	1	3	3	3	2
	4	Attock	4	4	4	4	4	4
	5	Hassan Abdal	6	5	5	5	5	5
	6	Hazro	5	6	6	6	6	6
Khushab	1	Noorpur Thal	1	3	1	1	1	1
	2	Khushab	2	1	3	3	3	2
	3	Quaidabad	3	2	2	2	2	3
Faisalabad	1	Faisalabad Sadder	1	2	1	1	2	1
	2	Chak Jumra	3	6	3	2	1	4
	3	Faisalabad City	2	5	4	4	4	3
	4	Samundari	6	3	2	3	3	6
	5	Tandianwala	4	1	5	5	6	2
	6	Jaranwala	5	4	6	6	5	5
Chakwal	1	Talagang	1	3	2	2	1	3
	2	Chakwal	3	2	1	1	4	2
	3	Kallar Kahar	4	1	4	3	2	1
	4	Choa Saidan Shah	2	4	3	4	3	4
Kasur	1	Kot Radha Kishan	1	1	1	2	1	3

District	Rank	Tehsil	English	Islamiat	Math	Science	Social Studies	Urdu
	2	Kasur	2	2	2	1	2	1
	3	Pattoki	3	4	3	4	4	2
	4	Chunian	4	3	4	3	3	4
Sialkot	1	Pasrur	2	1	2	1	2	1
	2	Daska	3	2	1	3	1	4
	3	Sambrial	1	3	3	2	4	2
	4	Shah Kot	4	4	4	4	3	3
Nankana Sahib	1	Shah Kot	1	1	1	1	1	1
	2	Kamalia	2	2	3	2	2	2
	3	Sangla Hill	3	3	2	4	4	4
	4	Nankana Sahib	4	4	4	3	3	3
Okara	1	Okara	1	1	1	1	2	1
	2	Depalpur	3	2	2	3	1	2
	3	Renala Khurd	2	3	3	2	3	3
Gujrat	1	Gujrat	2	1	1	1	1	2
	2	Kharian	1	2	2	2	2	1
	3	Sarai Alam Gir	3	3	3	3	3	3
Mandi Bahaudin	1	Phalia	3	1	3	1	2	3
	2	Mandi Bahuddin	1	2	2	3	1	1
	3	Malikwal	2	3	1	2	3	2
Hafizabad	1	Pindi Bhattian	1	2	1	1	2	1
	2	Hafizabad	2	1	2	2	1	2
Jhelum	1	Pind Dadan Khan	1	1	1	1	1	1
	2	Sohawa	2	3	2	3	3	2
	3	Jhelum	3	2	3	2	2	3
	4	Dina	4	4	4	4	4	4
Rawalpindi	1	Gujar Khan	2	1	1	2	1	1
	2	Kallar Syedan	1	2	2	1	2	2
	3	Rawalpindi	3	5	4	3	6	5
	4	Murree	4	7	3	7	5	3
	5	Taxila	5	4	6	4	3	4
	6	Kotli Sattian	7	3	5	6	4	7
	7	Kahuta	6	6	7	5	7	6

3.3 Classification of Tehsils According to Performance Irrespective of Districts

District based ranking of tehsils can be misleading to the extent that some relatively high performing tehsils may get overlooked because they happen to be part of district which is low ranked. The table 3.3 grossly informs that there is reasonable alignment in district and tehsil ranks but still there are some variations worth noting. For instance Nankana Sahib ranked 30th in 36 districts on the basis of aggregate performance of students but Shah Kot (tehsil of Nankana Sahib) ranked 63rd in the 132 tehsils by aggregate performance of students. On the other hand, Jhang ranked 3rd in aggregate district rank and its tehsil Shorkot ranked 28th on aggregate tehsil rank. There are several such instances in the table 3.3 which can be of interest for further exploration and investigating the reason for such apparent inconsistencies.

Table 3.3

Tehsil Ranks on the Basis of Students Performance in Grade 8 Examination 2012 in Punjab

Rank	Tehsil	District	N	Mean
1	Alipur	Muzafargarh	3,593	458.09
2	Muzaffargarh	Muzafargarh	11,515	442.24
3	Jatoi	Muzafargarh	4,019	436.40
4	Taunsa	D.G. Khan	6,019	422.14
5	Kot Adu	Muzafargarh	10,477	419.39
6	Mankera	Bhakkar	2,130	404.21
7	Multan Saddar	Multan	37	403.62
8	Minchinabad	Bahawalnagar	3,009	402.44
9	Jalalpur Pirwala	Multan	2,494	402.19
10	Lodhran	Lodhran	4,732	397.20
11	Shujabad	Multan	4,924	394.20
12	Sahiwal	Sargodha	3,884	393.07
13	Rojhan	Rajapur	618	392.74
14	Jhang	Jhang	15,862	388.33
15	Chishtian	Bahawalnagar	6,359	382.87
16	D.G. Khan	D.G. Khan	12,821	381.05
17	Jampur	Rajapur	4,746	380.65
18	Ahmadpur Sial	Jhang	3,351	380.29
19	Bhalwal	Sargodha	10,317	379.96
20	Hasilpur	Bahawalpur	4,166	378.97
21	Kallar Kot	Bhakkar	2,845	378.41
22	Chiniot	Chiniot	4,331	378.01
23	Shahpur	Sargodha	4,013	377.44
24	Bahawalnagar	Bahawalnagar	5,986	377.29
25	Chichawatni	Sahiwal	10,733	375.42
26	Khanpur	Rahim Yar Khan	7,003	375.13
27	Rajapur	Rajapur	4,005	374.65
28	Shorkot	Jhang	4,479	374.02
29	Multan	Multan	30,628	373.64
30	Karor Pacca	Lodhran	3,017	373.60
31	Bhowana	Chiniot	2,249	371.66
32	Sillwali	Sargodha	3,519	369.73
33	Fort Abbas	Bahawalnagar	3,713	368.60
34	Layyah	Layyah	10,085	367.93
35	Kamoke	Gujranwala	8,117	367.11
36	Gujranwala	Gujranwala	24,254	365.09
37	Sahiwal	Sahiwal	14,723	364.97
38	Burewala	Vehari	9,771	364.91
39	Darya Khan	Bhakkar	2,707	364.85
40	Sargodha	Sargodha	16,840	362.20
41	Karor Lalisan	Layyah	5,795	361.49
42	Noshera Virkan	Gujranwala	6,739	361.06
43	Shakarghar	Narowal	10,455	359.00
44	Lalian	Chiniot	3,082	357.93
45	Toba Tek Singh	T.T Singh	9,850	355.58
46	Jand	Attock	4,987	355.56
47	Haroonabad	Bahawalnagar	5,528	355.49
48	Bhakkar	Bhakkar	6,135	355.00
49	Pakpattan	Pakpattan	7,695	354.57
50	Gojra	T.T Singh	8,274	354.48
51	Kabirwala	Khanewal	6,633	354.08
52	Wazirabad	Gujranwala	10,625	353.84
53	Fatah Jang	Attock	4,080	352.22
54	Mianwali	Mianwali	8,547	352.18
55	Noorpur Thal	Khushab	2,059	352.04
56	Isa Khel	Mianwali	3,743	350.37
57	Piplan	Mianwali	4,200	350.31
58	Dunyapur	Lodhran	3,825	349.12
59	Mian Channu	Khanewal	6,955	348.54

Rank	Tehsil	District	N	Mean
60	Mailsi	Vehari	6,661	348.22
61	Vehari	Vehari	7,829	347.78
62	Faisalabad Saddar	Faisalabad	15,291	347.65
63	Shah Kot	Nankana Sahib	3,109	346.96
64	Liaquatpur	Rahim Yar Khan	5,790	346.79
65	Kamalia	T.T Singh	7,116	345.85
66	Pindi Gheb	Attock	3,866	345.37
67	Sheikhupura	Sheikhupura	17,725	343.72
68	Yazman	Bahawalpur	4,200	339.13
69	Zafarwal	Narowal	7,505	338.98
70	Pind Dadan Khan	Jehlum	5,180	338.03
71	Lahore City	Lahore	36,488	336.08
72	Muridke	Sheikhupura	6,051	335.91
73	Cantt	Lahore	69,454	335.31
74	Chak Jumra	Faisalabad	3,856	332.77
75	Kot Radha Kishan	Kasur	3,675	332.21
76	Sharaqpur	Sheikhupura	2,185	331.76
77	Khanewal	Khanewal	7,891	331.34
78	Ahmadpur East	Bahawalpur	4,362	331.11
79	Khushab	Khushab	9,642	330.78
80	Kasur	Kasur	11,722	329.99
81	Quaidabad	Khushab	1,946	329.33
82	Pasrur	Sialkot	11,936	329.03
83		Nankana Sahib	3,326	328.97
84	Bahawalpur	Bahawalpur	10,790	328.51
85	Okara	Okara	11,582	327.52
86	Arifwala	Pakpattan	6,703	327.40
87	Attock	Attock	4,978	326.33
88	Sadiqabad	Rahim Yar Khan	6,591	326.00
89	Daska	Sialkot	12,342	325.74
90	Faisalabad City	Faisalabad	41,453	325.25
91	Talagang	Chakwal	7,495	325.24
92	Samundari	Faisalabad	9,033	324.79
93	Chakwal	Chakwal	9,021	323.94
94	Gujrat	Gujrat	21,934	323.71
95	Narowal	Narowal	8,665	323.43
96	Phalia	Mandi Bahaudin	6,337	323.27
97	Kallar Kahar	Chakwal	2,274	322.29
98	Kharian	Gujrat	12,067	322.13
99	Rahim Yar Khan	Rahim Yar Khan	11,557	322.07
100	Sambrial	Sialkot	5,594	321.77
101	Pindi Bhattian	Hafizabad	5,140	320.84
102	Mandi Bahauddin	Mandi Bahaudin	8,396	320.75
103	Gujar Khan	Rawalpindi	10,762	320.64
104	Tandianwala	Faisalabad	5,172	320.13
105	Chaubara	Layyah	1,321	319.60
106	Ferozwala	Sheikhupura	4,330	319.58
107	Depalpur	Okara	10,236	318.76
108	Jaranwala	Faisalabad	14,756	318.10
109	Pattoki	Kasur	9,159	317.50
110	Hafizabad	Hafizabad	7,381	317.36
111	Kallar Syedan	Rawalpindi	3,430	316.99
112	Choa Saidan Shah	Chakwal	2,031	315.83
113	Shah Kot	Sialkot	22,233	315.78
114	Malikwal	Mandi Bahaudin	4,372	314.98
115	Sangla Hill	Nankana Sahib	3,173	314.83
116	Chunian	Kasur	7,578	313.97
117	Multan City	Multan	23	313.83
118	Kairpur Tamewali	Bahawalpur	1,100	313.82
119	Nankana Sahib	Nankana Sahib	8,346	310.90
120	Renala Khurd	Okara	5,128	310.43
121	Sohawa	Jehlum	3,213	307.52
122	Jahanian	Khanewal	2,839	307.13
123	Jehlum	Jehlum	6,606	306.21

Rank	Tehsil	District	N	Mean
124	Hassan Abdal	Attock	2,094	306.07
125	Rawalpindi	Rawalpindi	18,885	301.70
126	Hazro	Attock	4,081	301.29
127	Murree	Rawalpindi	2,428	298.32
128	Taxila	Rawalpindi	3,105	297.25
129	Kotli Sattian	Rawalpindi	1,543	293.38
130	Kahuta	Rawalpindi	2,979	291.79
131	Sarai Alam Gir	Gujrat	2,912	286.75
132	Dina	Jehlum	3,521	281.08

3.4. Chapter/Content Area wise Analysis of Scores in Test by Districts

Following tables shows the mean scores of students on test items from specific chapters (in science, social studies and mathematics) or content areas (in Islamiyat, Urdu and English) from the textbook. Mean scores are converted into fraction of unit score for the dividing mean score by the total score of item from respective chapter to make the scores comparable.

The purpose of these tables is to highlight the content areas in which students need support. The unit score less than 0.5 is shown in red color in the tables pointing the content area in which students need support. In addition if in rows next to a district has more red color number, it shows the students in that particular district require support in relevant content areas. The titles of the content area are mentioned in the legend beneath the table.

Table 3.4b shows that student across the districts have problem in understanding the concepts given in chapters on Lenses, Measurement of Physical Quantities, and Exploring Space. The students of district Chakwal have difficulty in learning the subject of science in 9 out of 12 chapters with scores below 0.5.

Moreover, the tables also show non-uniform coverage of content. Some chapters are ignored in some version of the test while selecting test item. There is no consistent pattern in which chapters are neglected in some version of the tests.

Note: Chapters from each subject in which students performed poorly are listed in annexure 9.

Table 3.4a

Content wise Analysis of Science (Ch1 to Ch6)

District	Ch1		Ch2		Ch3		Ch4		Ch5		Ch6	
	M	Per item	M	Per item	M	Per item	M	Per item	M	Per item	M	Per item
Hafizabad	2.67	0.67	2.03	0.68	4.69	0.36	1.95	0.65	3.62	0.52	6.11	0.36
Jhang	3.15	0.79	2.27	0.76	6.40	0.49	2.26	0.75	4.59	0.66	8.09	0.48
Lodhran	3.02	0.76	2.27	0.76	6.72	0.52	2.26	0.75	4.45	0.64	8.58	0.50
Pakpatan	2.71	0.68	1.06	0.35	5.76	0.44	4.85	0.97	3.59	0.51	7.51	0.44
Rajanpur	0.32	0.08	2.03	0.68	4.80	0.37	0.19	0.06	1.01	0.14	5.39	0.32
Rawalpandi	0.50	0.13	1.82	0.61	3.10	0.24	0.29	0.10	1.04	0.15	4.29	0.25
Faisalabad			5.70	0.95	4.40	0.34	4.59	0.77	6.85	0.34		
Jhelum			4.81	0.80	3.55	0.27	2.71	0.45	6.65	0.33		
Kasur			4.95	0.83	5.07	0.39	2.73	0.46	7.12	0.36		
Mianwali			5.49	0.92	5.12	0.39	3.08	0.51	8.02	0.40		
Narowal			5.06	0.84	4.69	0.36	2.83	0.47	7.50	0.38		
Sahiwal			6.68	0.95	4.83	0.37	3.21	0.54	8.23	0.41		
Bhakkar			1.69	0.85	8.45	0.47	1.68	0.56	7.15	0.40	0.65	0.33
Chiniot			1.60	0.80	10.42	0.58	2.41	0.80	8.10	0.45	0.60	0.30
Gujrat			1.44	0.72	9.28	0.52	2.16	0.72	6.90	0.38	1.05	0.53
Khanewal			1.57	0.79	9.67	0.54	2.23	0.74	6.91	0.38	1.17	0.59
Muzafargarh			1.75	0.88	12.57	0.70	2.65	0.88	11.48	0.64	1.56	0.78
Sialkot			1.43	0.72	9.14	0.51	2.11	0.70	6.64	0.37	1.07	0.54
DG Khan			1.41	0.71	3.19	0.40	6.03	0.46	3.02	0.38	0.39	0.20
Khushab			1.17	0.59	5.05	0.63	5.73	0.44	4.96	0.62	1.18	0.59
Lahore			1.22	0.61	5.33	0.67	6.29	0.48	4.82	0.60	1.17	0.59
Rahim Yar Khan			1.22	0.61	5.50	0.69	6.03	0.46	5.00	0.63	1.17	0.59
Toba Tek Singh			0.31	0.16	2.79	0.35	6.08	0.47	2.72	0.34	0.42	0.21
Vehari			1.32	0.66	2.95	0.37	4.99	0.38	2.81	0.35	0.39	0.20
Attock			1.52	0.76	4.40	0.55	5.09	0.39	4.16	0.46	3.77	0.31
Bahawalpur			1.69	0.85	4.70	0.59	1.19	0.09	5.16	0.57	1.96	0.16
Gujranwala			1.62	0.81	4.71	0.59	5.73	0.44	4.70	0.52	4.68	0.39
Layyah			1.75	0.88	4.76	0.60	6.23	0.48	4.91	0.55	5.00	0.42
Nankanasahib			1.63	0.82	4.55	0.57	4.97	0.38	4.35	0.48	3.33	0.28
Sargodah			1.78	0.89	4.91	0.61	6.29	0.48	5.04	0.56	5.10	0.43
Bahawalnagar			1.01	0.50	1.08	0.14	4.35	0.87	1.67	0.33	5.83	2.92
Chakwal			0.78	0.78	1.92	0.24	0.64	0.21	3.48	0.70	0.78	0.39
Mandi Bahuddin			1.31	0.66	4.52	0.57	1.96	0.65	4.20	0.84	1.75	0.88
Multan			1.53	0.77	5.47	0.68	2.22	0.74	5.18	0.86	2.27	0.76
Okara			1.39	0.70	4.63	0.58	1.99	0.66	4.15	0.83	1.80	0.90
Sheikhpura			1.10	0.55	1.27	0.16	0.25	0.08	1.66	0.33	1.38	0.69

Ch1 = Human organ system, Ch2 = Cell Division, Ch3 = Biotechnology, Ch4 = Pollution and their effects on environment, Ch5 = Chemical reaction, Ch6 = Acids and Bases

¹ Per item score should be read as, if the total marks of the questions from this chapter is assumed '1' then the student achievement can be read as equal to given fraction/decimal.

Table 3.4b

Content wise Analysis of Science (Ch7 to Ch12)

District	Ch7		Ch8		Ch9		Ch10		Ch11		Ch12	
	M	Per item	M	Per item	M	Per item	M	Per item	M	Per item	M	Per item
Hafizabad	2.66	0.53					3.05	0.22			3.82	0.27
Jhang	3.18	0.64					4.46	0.32			5.38	0.38
Lodhran	3.22	0.64					4.66	0.33			5.77	0.41
Pakpatan	2.77	0.55					3.69	0.26			5.16	0.37
Rajanpur	0.67	0.13					3.89	0.28			5.60	0.40
Rawalpandi	0.71	0.14					2.62	0.19			3.85	0.28
Faisalabad							8.73	0.46			6.56	0.44
Jhelum							6.42	0.34			4.89	0.33
Kasur							7.70	0.41			5.84	0.39
Mianwali							8.53	0.45			6.64	0.44
Narowal							7.16	0.38			5.87	0.39
Sahiwal							10.04	0.53			7.89	0.53
Bhakkar	1.57	0.52	5.86	0.42			1.86	0.47			6.09	0.38
Chiniot	2.16	0.72	5.96	0.43			1.70	0.43			7.19	0.45
Gujrat	1.86	0.62	5.06	0.36			1.39	0.35			6.47	0.40
Khanewal	2.04	0.68	4.51	0.32			1.61	0.40			5.98	0.37
Muzafargarh	2.61	0.87	8.75	0.63			2.13	0.53			10.67	0.67
Sialkot	1.92	0.64	4.79	0.34			1.33	0.33			6.21	0.39
DG Khan	0.14	0.07	0.17	0.06			1.72	0.29			5.96	0.37
Khushab	0.96	0.48	1.23	0.41			2.55	0.43			4.96	0.31
Lahore	0.87	0.44	1.18	0.39			2.51	0.42			5.66	0.35
RY Khan	0.98	0.49	1.34	0.45			2.72	0.45			5.45	0.34
Toba Tek Singh	0.21	0.11	0.74	0.25			1.52	0.25			5.18	0.32
Vehari	0.21	0.11	0.07	0.02			1.51	0.25			7.17	0.45
Attock	1.50	0.75	3.31	0.28	2.41	0.60	1.32	0.33			4.82	0.30
Bahawalpur	3.94	0.99	2.11	0.18	1.12	0.28	1.25	0.31			5.38	0.34
Gujranwala	1.61	0.81	4.37	0.36	2.58	0.65	1.40	0.35			7.23	0.45
Layyah	1.66	0.83	4.20	0.35	2.76	0.69	1.32	0.33			6.06	0.38
Nankanasahib	1.55	0.78	3.14	0.26	2.44	0.61	1.22	0.31			4.26	0.27
Sargodah	1.67	0.84	4.74	0.40	2.75	0.69	1.49	0.37			6.40	0.40
Bahawalnagar	0.33	0.03	5.27	0.88	1.07	0.54	1.97	0.49	3.31	0.33	7.59	0.47
Chakwal	3.14	0.29	0.98	0.33	0.08	0.04	0.80	0.20	2.78	0.28	2.76	0.17
Mandi Bahuddin	4.16	0.38	1.43	0.48	1.34	0.67	1.43	0.36	3.29	0.33	4.72	0.30
Multan	5.90	0.54	1.89	0.63	1.52	0.76	1.91	0.48	5.08	0.51	7.62	0.48
Okara	4.14	0.38	1.47	0.49	1.35	0.68	1.41	0.35	3.38	0.34	4.77	0.30
Sheikhpura	4.20	0.38	0.98	0.33	0.18	0.09	1.80	0.45	3.52	0.35	3.60	0.23

Ch7 = Force and pressure, Ch8 = Measurement of physical quantities, Ch9 = Sources and effects of heat energy, Ch10 = Lenses, Ch11 = Electricity in action, Ch12 = Exploring Space

Table 3.4b shows that content area of exploring space and electricity in action and lenses proved to be most difficult for students from almost all districts

Table 3.5a

Content wise Analysis of Mathematics (Ch1 to Ch6)

District	Operations on sets		Real Numbers		Financial arithmetic		Number system		Polynomials		Factorization	
	M	per item	M	per item	M	per item	M	per item	M	per item	M	per item
Hafizabad	2.89	0.72	2.77	0.69	4.63	0.36	1.70	0.85	3.01	0.23	4.38	0.49
Jhang	3.29	0.82	3.04	0.76	6.77	0.52	1.81	0.91	5.93	0.46	5.61	0.62
Lodhran	3.27	0.82	2.98	0.75	6.14	0.47	1.79	0.90	4.92	0.38	5.29	0.59
Pakpatan	2.87	0.72	2.82	0.71	5.12	0.39	1.73	0.87	3.86	0.30	4.19	0.47
Rajanpur	0.28	0.07	1.38	0.35	5.37	0.41	0.06	0.03	3.54	0.27	2.29	0.25
Rawalpindi	0.42	0.11	1.29	0.32	4.11	0.32	0.08	0.04	2.26	0.17	2.49	0.28
Faisalabad	4.75	0.34	1.85	0.62	3.60	0.72	8.61	0.62	1.87	0.62	5.13	0.32
Jehlum	4.40	0.31	1.83	0.61	3.42	0.68	7.69	0.55	1.86	0.62	5.20	0.33
Kasur	4.05	0.29	1.84	0.61	3.38	0.68	7.94	0.57	1.71	0.57	4.88	0.31
Mianwali	4.61	0.33	3.95	0.99	3.69	0.74	7.89	0.56	1.89	0.63	5.83	0.36
Narowal	4.87	0.35	1.87	0.62	3.51	0.70	7.98	0.57	1.93	0.64	5.99	0.37
Sahiwal	6.25	0.45	2.02	0.67	3.80	0.76	9.67	0.69	2.10	0.70	7.13	0.45
Bhakkar	2.36	0.59	2.82	0.56	7.20	0.48	7.30	0.61	2.45	0.61	6.88	0.46
Chiniot	2.66	0.67	2.95	0.59	7.32	0.49	7.35	0.61	2.80	0.70	7.56	0.50
Gujrat	2.06	0.52	2.55	0.51	4.88	0.33	6.76	0.56	2.08	0.52	5.57	0.37
Khanewal	2.32	0.58	2.38	0.48	5.58	0.37	7.21	0.60	2.25	0.56	6.08	0.41
Muzafargarh	2.43	0.61	3.11	0.62	8.53	0.57	8.56	0.71	3.00	0.75	9.52	0.63
Sialkot	2.10	0.53	2.52	0.50	6.65	0.44	6.88	0.57	2.13	0.53	5.29	0.35
DG Khan	1.70	0.43	1.09	0.27	6.74	0.45	5.38	0.41	0.90	0.18	5.71	0.41
Khushab	3.01	0.75	2.99	0.75	6.76	0.45	6.05	0.47	2.35	0.47	4.79	0.34
Lahore	2.87	0.72	2.89	0.72	6.43	0.43	6.01	0.46	2.16	0.43	5.17	0.37
Rahim Yar Khan	2.96	0.74	2.96	0.74	6.50	0.43	5.69	0.44	2.32	0.46	5.30	0.38
Toba Tek Singh	1.93	0.48	1.15	0.29	6.72	0.45	5.47	0.42	1.07	0.21	4.73	0.34
Vehari	1.89	0.47	1.11	0.28	6.79	0.45	5.64	0.43	1.04	0.21	5.06	0.36
Attock	2.81	0.70	2.08	0.52	6.02	0.40	7.50	0.58	1.39	0.70	6.28	0.37
Bahawalpur	2.30	0.58	2.39	0.60	8.42	0.56	5.45	0.42	7.93	0.99	2.73	0.16
Gujranwala	2.99	0.75	2.78	0.70	8.18	0.55	8.60	0.66	1.47	0.74	7.24	0.43
Layyah	2.71	0.68	2.49	0.62	8.30	0.55	7.62	0.59	1.30	0.65	7.25	0.43
Nankanasahib	2.84	0.71	2.66	0.67	7.20	0.48	7.70	0.59	1.37	0.69	6.40	0.38
Sargodah	3.11	0.78	2.85	0.71	8.50	0.57	8.85	0.68	1.54	0.77	8.14	0.48
Bahawalnagar	1.61	0.40	1.13	0.28	3.84	0.26	3.69	0.28	0.82	0.06	5.44	0.90
Chakwal	1.44	0.36	0.66	0.17	7.00	0.47	4.11	0.32	6.61	0.47	1.09	0.22
Mandi Bahuddin	2.59	0.65	2.12	0.53	5.02	0.33	5.53	0.43	4.53	0.32	2.51	0.50
Multan	2.89	0.72	2.36	0.59	5.65	0.38	7.00	0.54	5.51	0.39	3.13	0.63
Okara	2.38	0.60	2.04	0.51	4.24	0.28	5.52	0.42	4.22	0.30	2.43	0.49
Sheikhpora	1.50	0.38	1.16	0.29	3.37	0.22	4.18	0.32	3.23	0.23	0.80	0.16

In tables 3.5a and mixed trend was followed students from almost all districts performed poorly in content area from factorization

Table 3.5b

Content wise Analysis of Mathematics (Ch7 to Ch11)

District	Fundamentals of Geometry		Demonstrative Geometry		Practical Geometry		Areas and Volume		Information Handling	
	M	per item	M	per item	M	per item	M	per item	M	per item
Hafizabad	0.26	0.26	0.98	0.33	0.48	0.24	3.23	0.25	3.60	0.60
Jhang	0.45	0.45	1.54	0.51	0.61	0.31	5.46	0.42	4.18	0.70
Lodhran	0.42	0.42	1.39	0.46	0.53	0.27	5.26	0.40	4.08	0.68
Pakpatan	0.21	0.21	0.95	0.32	0.47	0.24	7.90	0.61	8.04	0.89
Rajanpur	0.17	0.17	0.90	0.30	0.33	0.17	4.47	0.34	2.75	0.46
Rawalpandi	0.23	0.23	0.76	0.25	0.41	0.21	3.73	0.29	2.75	0.46
Faisalabad	0.77	0.77			5.29	0.38	2.05	0.51	3.58	0.60
Jhelum	0.74	0.74			4.72	0.34	2.00	0.50	3.37	0.56
Kasur	0.73	0.73			5.80	0.41	1.88	0.47	3.24	0.54
Mianwali	0.78	0.78			6.01	0.43	2.28	0.57	3.49	0.58
Narowal	0.74	0.74			4.56	0.33	2.16	0.54	3.56	0.59
Sahiwal	0.84	0.84			6.52	0.47	2.34	0.59	3.98	0.66
Bhakkar	3.63	0.26			2.94	0.59			4.00	0.67
Chiniot	4.63	0.33			2.66	0.53			4.02	0.67
Gujrat	3.41	0.24			2.57	0.51			3.40	0.57
Khanewal	3.91	0.28			2.60	0.52			3.56	0.59
Muzafargarh	6.49	0.46			3.24	0.65			4.17	0.70
Sialkot	3.47	0.25			4.14	0.83			3.75	0.63
DG Khan	1.19	0.30			5.73	0.41	0.06	0.06	2.75	0.46
Khushab	2.31	0.58			5.04	0.36	0.72	0.72	3.25	0.54
Lahore	2.07	0.52			5.07	0.36	0.58	0.58	2.21	0.37
Rahim Yar Khan	2.32	0.58			5.35	0.38	0.66	0.66	2.31	0.39
Toba Tek Singh	1.04	0.26			5.56	0.40	0.07	0.07	2.64	0.44
Vehari	1.03	0.26			5.86	0.42	0.07	0.07	2.67	0.45
Attock	1.85	0.46			1.91	0.38	4.61	0.46	3.06	0.51
Bahawalpur	1.74	0.44			1.87	0.37	1.86	0.19	3.12	0.52
Gujranwala	2.13	0.53			2.22	0.44	3.59	0.36	2.78	0.46
Layyah	2.01	0.50			1.90	0.38	4.11	0.41	3.05	0.51
Nankanasahib	1.89	0.47			1.87	0.37	3.55	0.36	3.03	0.51
Sargodah	2.26	0.57			2.21	0.44	3.72	0.37	3.50	0.58
Bahawalnagar			1.30	0.09			2.72	0.68	3.23	0.54
Chakwal			4.19	0.28			0.79	0.20	2.67	0.45
Mandi Bahuddin			3.94	0.26			1.14	0.29	3.29	0.55
Multan			5.03	0.34			1.61	0.40	3.67	0.61
Okara			4.65	0.31			1.03	0.26	3.25	0.54
Sheikhpura			3.79	0.25			1.01	0.25	3.15	0.53

Table 3.6

Content wise Analysis of English

District	Lexical		Thinking Skill		Writing Skill		Grammar		Language	
	M	per item	M	per item	M	per item	M	per item	M	per item
Hafizabad	1.43	0.72	4.10	0.34	9.21	0.28	20.70	0.59	0.70	0.70
Jhang	1.71	0.86	6.36	0.53	14.12	0.43	26.32	0.75	0.71	0.71
Lodhran	0.69	0.35	5.50	0.46	13.40	0.41	25.74	0.74	0.82	0.82
Pakpatan	0.48	0.24	4.49	0.37	13.61	0.41	20.07	0.57	0.71	0.71
Rajanpur	0.03	0.02	4.58	0.38	12.57	0.38	10.81	0.31	0.06	0.06
Rawalpandi	0.06	0.03	3.56	0.30	10.60	0.32	9.32	0.27	0.11	0.11
Faisalabad	1.42	0.71	4.88	0.41	12.05	0.37	19.52	0.56	0.68	0.68
Jhelum	1.48	0.74	4.51	0.38	10.06	0.30	19.12	0.55	0.62	0.62
Kasur	1.39	0.70	4.51	0.38	11.41	0.35	18.95	0.54	0.63	0.63
Mianwali	1.65	0.83	4.92	0.41	9.99	0.30	23.24	0.66	0.73	0.73
Narowal	1.61	0.81	4.26	0.36	10.68	0.32	22.47	0.64	0.74	0.74
Sahiwal	1.68	0.84	6.01	0.50	14.18	0.43	22.80	0.65	0.77	0.77
Bhakkar	1.76	0.88	1.46	0.49	11.77	0.36	28.36	0.64	1.47	0.74
Chiniot	1.72	0.86	1.42	0.47	11.36	0.34	27.49	0.62	1.47	0.74
Gujrat	1.61	0.81	1.18	0.39	10.75	0.33	22.54	0.51	1.27	0.64
Khanewal	1.67	0.84	1.25	0.42	9.50	0.29	25.20	0.57	1.35	0.68
Muzafargarh	1.88	0.94	1.61	0.54	18.27	0.55	34.63	0.79	1.66	0.83
Sialkot	1.60	0.80	1.17	0.39	11.27	0.34	22.75	0.52	1.24	0.62
DG Khan	0.14	0.07			15.11	0.46	21.05	0.48	0.88	0.44
Khushab	1.49	0.75			11.35	0.34	24.04	0.55	0.76	0.38
Lahore	1.48	0.74			13.84	0.42	24.93	0.57	0.85	0.43
Rahim Yar Khan	1.51	0.76			11.38	0.34	25.28	0.57	0.82	0.41
Toba Tek Singh	0.32	0.16			12.58	0.38	15.43	0.35	0.75	0.38
Vehari	0.23	0.12			11.90	0.36	16.05	0.36	0.78	0.39
Attock	0.70	0.35	5.69	0.47	13.82	0.42	27.03	0.59		
Bahawalpur	1.55	0.78	6.25	0.52	14.95	0.45	24.50	0.53		
Gujranwala	0.74	0.37	6.31	0.53	15.45	0.47	29.08	0.63		
Layyah	0.66	0.33	5.79	0.48	13.83	0.42	28.30	0.62		
Nankanasahib	0.62	0.31	4.94	0.41	11.49	0.35	24.64	0.54		
Sargodah	0.75	0.38	6.39	0.53	15.95	0.48	30.08	0.65		
Bahawalnagar	0.85	0.43	5.66	0.47	13.31	0.40	16.77	0.36		
Chakwal	0.98	0.49	5.52	0.46	14.95	0.45	16.15	0.35		
Mandi Bahuddin	1.66	0.83	5.34	0.45	10.99	0.33	24.54	0.53		
Multan	1.83	0.92	7.06	0.59	15.60	0.47	30.13	0.66		
Okara	1.64	0.82	4.52	0.38	12.42	0.38	23.06	0.50		
Sheikhpura	1.77	0.89	3.82	0.32	12.05	0.37	14.97	0.33		

Table 3.7

Content wise Analysis of Urdu

District	Grammar		Lesson reading		Poem reading		Writing skill	
	M	Per item	M	Per item	M	Per item	M	Per item
Hafizabad	11.48	0.57	8.68	0.87	7.04	0.70	16.10	0.40
Jhang	13.84	0.69	9.05	0.91	7.84	0.78	19.70	0.49
Lodhran	13.25	0.66	8.96	0.90	7.61	0.76	19.25	0.48
Pakpattan	10.79	0.54	8.70	0.87	7.04	0.70	21.57	0.54
Rajanpur	3.42	0.17	2.54	0.25	0.99	0.10	18.32	0.46
Rawalpindi	3.99	0.20	2.41	0.24	1.14	0.11	16.68	0.42
Faisalabad	12.97	0.65	5.36	0.54	7.38	0.74	20.03	0.50
Jehlum	12.39	0.62	5.20	0.52	7.16	0.72	16.83	0.42
Kasur	12.44	0.62	5.28	0.53	7.18	0.72	20.83	0.52
Mianwali	13.73	0.69	7.24	0.72	7.35	0.74	19.98	0.50
Narowal	13.63	0.68	5.64	0.56	7.35	0.74	18.10	0.45
Sahiwal	14.23	0.71	5.85	0.59	7.86	0.79	22.70	0.57
Bhakkar	13.21	0.66	8.79	0.88	6.20	0.62	20.47	0.51
Chiniot	12.47	0.62	8.73	0.87	6.09	0.61	23.78	0.59
Gujrat	10.78	0.54	8.52	0.85	4.93	0.49	19.64	0.49
Khanewal	11.42	0.57	8.64	0.86	5.69	0.57	20.00	0.50
Muzafargarh	14.77	0.74	9.03	0.90	7.12	0.71	16.32	0.41
Sialkot	10.60	0.53	8.39	0.84	5.00	0.50	19.97	0.50
DG Khan	7.49	0.37	1.54	0.15	3.90	0.39	23.73	0.59
Khushab	11.97	0.60	7.42	0.74	6.12	0.61	20.45	0.51
Lahore	10.98	0.55	8.25	0.83	5.99	0.60	22.15	0.55
Rahim Yar Khan	12.16	0.61	8.36	0.84	6.27	0.63	19.64	0.49
Toba Tek Singh	6.80	0.34	1.48	0.15	3.39	0.34	22.96	0.57
Vehari	6.88	0.34	1.48	0.15	3.40	0.34	23.24	0.58
Attock	11.19	0.56	6.51	0.65	5.99	0.60	20.10	0.50
Bahawalpur	10.87	0.54	6.55	0.66	5.94	0.59	20.04	0.50
Gujranwala	11.67	0.58	6.66	0.67	6.38	0.64	22.06	0.55
Layyah	11.71	0.59	6.55	0.66	6.33	0.63	21.81	0.55
Nankanasahib	10.57	0.53	6.39	0.64	5.76	0.58	18.73	0.47
Sargodah	12.07	0.60	6.76	0.68	6.61	0.66	22.32	0.56
Bahawalnagar	3.73	0.19	2.32	0.23	2.28	0.23	21.49	0.54
Chakwal	4.33	0.22	1.70	0.17	2.73	0.27	20.04	0.50
Mandi Bahuddin	11.05	0.55	6.53	0.65	7.57	0.76	20.09	0.50
Multan	13.21	0.66	7.10	0.71	8.02	0.80	23.21	0.58
Okara	10.76	0.54	6.55	0.66	7.33	0.73	20.36	0.51
Sheikhpura	4.08	0.20	2.37	0.24	2.28	0.23	20.81	0.52

The students are in need of support in learning grammar and writing skills.

The per item score in grammar going above 0.70 only in 2 districts only, it remained between 0.60 and 0.70 in 13 districts but it is less than 0.60 in 21 districts. The per-item score in writing skills does not cross 0.60 in any of the districts. The score is below 0.5 in 11 districts. The reading skills in prose and poem are comparatively better in most districts.

Table 3.8
Content wise Analysis of Islamiyat

District	Amaniyaat o ibadaat		Uswaye hussnah		Ikhlak o aadaab		Mashahir islaam	
	M	Per item	M	Per item	M	Per item	M	Per item
Hafizabad	1.43	0.72	11.91	0.54	10.92	0.57	2.28	0.57
Jhang	1.44	0.72	13.57	0.62	13.01	0.68	2.54	0.64
Lodhran	1.42	0.71	13.78	0.63	13.28	0.70	2.40	0.60
Pakpatan	1.35	0.68	12.78	0.58	12.24	0.64	2.17	0.54
Rajanpur	1.36	0.68	8.51	0.39	6.50	0.34	0.40	0.10
Rawalpandi	1.27	0.64	6.95	0.32	5.06	0.27	0.35	0.09
Faisalabad	1.67	0.84	9.29	0.62	14.54	0.56	2.25	0.75
Jhelum	1.55	0.78	8.85	0.59	12.44	0.48	2.18	0.73
Kasur	1.59	0.80	9.01	0.60	16.33	0.63	2.19	0.73
Mianwali	1.69	0.85	9.51	0.63	15.48	0.60	2.39	0.80
Narowal	1.68	0.84	9.22	0.61	15.41	0.59	2.29	0.76
Sahiwal	1.70	0.85	9.74	0.65	16.83	0.65	2.45	0.82
Bhakkar	16.05	0.80	12.54	0.57	1.42	0.07	2.32	0.77
Chiniot	16.33	0.82	13.39	0.61	1.46	0.07	2.26	0.75
Gujrat	15.39	0.77	12.18	0.55	1.38	0.07	2.09	0.70
Khanewal	1.30	0.65	15.19	0.69	11.76	0.59	2.19	0.73
Muzafargarh	1.54	0.77	17.54	0.80	14.90	0.75	2.48	0.83
Sialkot	1.40	0.70	14.96	0.68	12.03	0.60	2.09	0.70
DG Khan	9.97	0.83	8.51	0.39	0.64	0.03	0.90	0.30
Khushab	1.60	0.80	14.29	0.65	11.66	0.58	2.40	0.80
Lahore	1.54	0.77	13.78	0.63	11.70	0.59	2.30	0.77
Rahim Yar Khan	1.53	0.77	13.57	0.62	11.40	0.57	2.40	0.80
Toba Tek Singh	0.71	0.36	9.66	0.44	8.21	0.41	0.80	0.27
Vehari	0.66	0.33	11.49	0.52	7.78	0.39	0.08	0.03
Attock	1.45	0.73	11.97	0.57	12.54	0.60	2.11	0.70
Bahawalpur	1.43	0.72	15.18	0.72	12.88	0.61	1.63	0.54
Gujranwala	1.47	0.74	13.87	0.66	14.31	0.68	2.18	0.73
Layyah	1.38	0.69	13.27	0.63	14.06	0.67	2.21	0.74
Nankanasahib	1.38	0.69	12.05	0.57	12.69	0.60	2.08	0.69
Sargodah	1.47	0.74	14.10	0.67	14.67	0.70	2.25	0.75
Bahawalnagar	0.20	0.10	8.20	0.37	9.80	0.47	0.18	0.06
Chakwal	1.07	0.54	10.44	0.47	8.45	0.40	0.94	0.31
Mandi Bahuddin	1.52	0.76	13.04	0.59	11.12	0.53	2.29	0.76
Multan	1.55	0.78	14.97	0.68	13.01	0.62	2.40	0.80
Okara	1.53	0.77	13.03	0.59	11.33	0.54	2.28	0.76
Sheikhpura	0.22	0.11	8.84	0.40	6.38	0.30	0.21	0.07

The students performed generally high in all areas identified in Islamiyat. The per-item score in Usway-e-Hussna and Ikhlak o Aadaab is above 0.70 only in 2 and 3 districts respectively. It mostly remained between 0.60 and 0.70 in 17 and 12 districts respectively. Per item score are less than 0.60 in 17 and 21 districts in Usway-e-Hussna and Ikhlak o Aadaab respectively which shows need for reinforcement to students in these areas.

Table 3.9a

Content wise Analysis of Social Studies (Chapters 1 – 4)

	Chapter 1		Chapter 2		Chapter 3		Chapter 4	
	M	per item	M	per item	M	per item	M	per item
Hafizabad	4.65	0.77	1.96	0.65	2.88	0.72	2.35	0.59
Jhang	5.10	0.85	2.20	0.73	3.25	0.81	3.01	0.75
Lodhran	4.64	0.77	2.33	0.78	3.08	0.77	2.67	0.67
Pakpattan	4.68	0.78	1.84	0.61	2.89	0.72	2.40	0.60
Rajanpur	0.79	0.13	0.26	0.09	0.97	0.24	1.67	0.42
Rawalpindi	0.92	0.15	0.72	0.24	0.93	0.23	1.06	0.27
Faisalabad	3.49	0.58	2.08	0.69	1.43	0.48	3.20	0.64
Jhelum	3.44	0.57	1.94	0.65	1.42	0.47	3.07	0.61
Kasur	3.46	0.58	2.06	0.69	1.45	0.48	3.16	0.63
Mianwali	3.66	0.61	2.23	0.74	1.55	0.52	3.59	0.72
Narowal	3.69	0.62	2.04	0.68	1.49	0.50	3.27	0.65
Sahiwal	3.70	0.62	2.26	0.75	1.59	0.53	3.48	0.70
Bhakkar	4.95	0.82	1.97	0.66	2.02	0.67	2.92	0.58
Chiniot	4.81	0.80	1.88	0.63	1.83	0.61	2.65	0.53
Gujrat	4.60	0.77	1.55	0.52	1.53	0.51	2.27	0.45
Khanewal	4.86	0.81	1.79	0.60	1.82	0.61	2.52	0.50
Muzafargarh	4.88	0.81	2.28	0.76	2.35	0.78	3.13	0.63
Sialkot	4.57	0.76	1.64	0.55	1.55	0.52	2.23	0.45
D.G.Khan	1.84	0.31	0.64	0.21	1.08	0.27	0.23	0.06
Khushab	3.35	0.56	1.28	0.43	2.11	0.53	2.68	0.67
Lahore	3.80	0.63	1.34	0.45	3.01	0.75	2.54	0.64
R.Y.Khan	3.89	0.65	1.45	0.48	3.19	0.80	2.84	0.71
T.T.Singh	1.57	0.26	0.62	0.21	1.17	0.29	0.43	0.11
Vehari	1.59	0.27	0.68	0.23	1.14	0.29	0.45	0.11
Attock	4.37	0.73	1.36	0.68	2.76	0.69	2.45	0.61
Bahawalpur	4.37	0.73	1.28	0.64	2.62	0.65	2.41	0.60
Gujranwala	4.42	0.74	1.42	0.71	2.95	0.74	2.47	0.62
Layyah	4.58	0.76	1.44	0.72	2.89	0.72	2.58	0.65
Nankana	4.22	0.70	1.27	0.63	2.57	0.64	2.40	0.60
Sargodha	4.55	0.76	1.46	0.73	3.05	0.76	2.55	0.64
Bahawalnagar	1.99	0.33	1.95	0.65	0.34	0.11	1.47	0.37
Chakwal	1.57	0.26	0.56	0.19	0.46	0.15	1.17	0.29
M. Baha-ud-Din	3.87	0.64	1.86	0.62	2.22	0.74	2.12	0.53
Multan	4.37	0.73	2.31	0.77	2.34	0.78	2.37	0.59
Okara	3.85	0.64	1.81	0.60	2.10	0.70	2.08	0.52
Sheikhpura	1.46	0.24	1.05	0.35	1.06	0.35	1.16	0.29

Table 3.9a and 3.9b represent analysis of student achievement in social studies by chapter (chapters represent content areas). There is no pattern in the areas of difficulty faced by students across districts which shoes need of district based planning of teacher training and student support. There is reasonably low number of content areas in which student achievement goes beyond 0.70. Mostly the performance remains between 0.60 and 0.70. The number in red color in table provides information on weak areas in social studies by districts.

Table 3.9b

Content wise Analysis of Social Studies (Chapters 5 – 8)

	Chapter 5		Chapter 6		Chapter 7		Chapter 8	
	M	per item	M	per item	M	per item	M	per item
Hafizabad	1.07	0.53	4.82	0.60	4.88	0.61	2.19	0.44
Jhang	1.07	0.54	5.88	0.74	6.07	0.76	2.61	0.52
Lodhran	1.08	0.54	4.82	0.60	5.12	0.64	2.47	0.49
Pakpattan	1.11	0.56	4.36	0.55	4.73	0.59	2.20	0.44
Rajanpur	0.39	0.19	2.55	0.32	3.51	0.44	0.83	0.17
Rawalpindi	0.58	0.29	2.20	0.28	2.18	0.27	1.02	0.20
Faisalabad	1.54	0.77	3.95	0.49	3.97	0.50	3.36	0.67
Jhelum	1.45	0.72	4.08	0.51	3.94	0.49	3.34	0.67
Kasur	1.45	0.72	3.98	0.50	4.00	0.50	3.33	0.67
Mianwali	1.59	0.79	4.46	0.56	4.81	0.60	3.71	0.74
Narowal	1.61	0.80	4.52	0.57	4.78	0.60	3.29	0.66
Sahiwal	1.61	0.81	4.74	0.59	4.86	0.61	3.72	0.74
Bhakkar	1.66	0.83	5.34	0.67	5.57	0.70	3.44	0.69
Chiniot	1.65	0.82	5.23	0.65	5.44	0.68	3.28	0.66
Gujrat	1.56	0.78	4.68	0.59	4.96	0.62	2.75	0.55
Khanewal	1.60	0.80	4.93	0.62	5.29	0.66	3.14	0.63
Muzafargarh	1.81	0.90	5.74	0.72	5.94	0.74	3.79	0.76
Sialkot	1.57	0.79	4.61	0.58	4.90	0.61	2.70	0.54
D.G.Khan	0.58	0.29	2.21	0.28	2.73	0.34	1.07	0.21
Khushab	0.74	0.37	4.53	0.57	4.64	0.58	3.41	0.68
Lahore	0.78	0.39	4.39	0.55	4.36	0.55	3.07	0.61
R.Y.Khan	0.86	0.43	4.97	0.62	4.64	0.58	3.48	0.70
T.T.Singh	0.80	0.40	2.16	0.27	2.62	0.33	1.20	0.24
Vehari	0.68	0.34	2.24	0.28	2.70	0.34	1.19	0.24
Attock	1.50	0.75	4.61	0.58	5.19	0.65	3.03	0.61
Bahawalpur	1.44	0.72	4.27	0.53	4.87	0.61	2.82	0.56
Gujranwala	1.57	0.78	4.74	0.59	5.32	0.67	3.02	0.60
Layyah	1.56	0.78	4.58	0.57	5.27	0.66	3.05	0.61
Nankana	1.44	0.72	4.31	0.54	4.85	0.61	2.83	0.57
Sargodha	1.54	0.77	4.66	0.58	5.39	0.67	3.11	0.62
Bahawalnagar	0.13	0.07	1.81	0.23	2.62	0.29	1.33	0.27
Chakwal	0.43	0.21	2.35	0.29	1.21	0.13	1.68	0.34
M. Baha-ud-Din	1.23	0.61	4.92	0.62	5.34	0.59	3.22	0.64
Multan	1.16	0.58	5.37	0.67	5.78	0.64	3.83	0.77
Okara	1.16	0.58	4.76	0.59	5.23	0.58	3.21	0.64
Sheikhpura	0.61	0.31	2.07	0.26	2.43	0.27	1.88	0.38

3.5. SLO wise Analysis of Scores

The analysis in this section deciphers the content/chapters further by learning outcomes (SLOs) represented in the tests. It is assumed that provincial average on item(s) pertaining to any specific SLO on which student score less than 0.5¹ requires attention for teachers and teacher trainers. Teacher and/or students need enhanced support to improve achievement in these content areas.

It is worth mentioning to consider following context while interpreting the information contained in the SLO wise means reported in the tables in this section of the report. The test in all six subjects comprised items directly measuring some of the listed learning outcomes (SLOs). The test items are based on a sample of SLOs representing the distribution of items presented in a table of specification. The SLOs chosen to be included in a test are representing a certain content/unit/chapter from course content in the textbook. The student achievement on test items (representing SLOs from certain content) is used to generalize student mastery in selected content area rather than SLO(s) itself.

The SLO wise analysis may give an impression as the student achievement in remaining SLOs (not included in test) is up to mark which may or may not be the case.

The mean score of test items (representing an SLO) is presumably average score of students in all districts (Break-up of SLO wise district mean scores is given in annexure 10) which may be incorrect as it is based on some SLOs which may not have corresponding item in tests used in some of the districts.

¹ Per item score should be read as, if the total marks of the questions from this chapter is assumed '1' then the student achievement can be read as equal to given fraction/decimal.

Table 3.10

SLO wise Analysis of English

Sr No	Content	Sr No	Sub Content	SLO	SLOs No	M
1	Reading and Thinking skills			Analyze a paragraph to		
				1. Identify a topic sentence	1	
				2. Identify sentences carrying supporting details	2	
				Skim text to		
				1. have a general idea of the text	3	
				2. Infer theme/ main idea	4	
				Apply critical thinking to interact with text, and use intensive reading strategies (While- reading):		
				1. Scan to answer short questions	5	
				2. Make simple inferences using context of the text and prior knowledge	6	
				3. Distinguish between what is clearly stated and what is implied	7	
				4. Deduce meaning of difficult words from context	8	0.67
				6. Read silently with comprehension and extract main idea and supporting detail	9	
				Use critical thinking to respond to the text (post-reading):		
				1. Apply world knowledge and own feelings/ opinion to the text read	10	
				2. Explore causes and consequences of a problem or an issue and propose various solutions	11	0.64
				Identify correct spellings	12	
				Read a story to summarize	13	
				Translate a text (Prose / Poetry) from English to Urdu	13.1	
				Rewrite English text (Prose / Poetry) in to simple English	13.2	
2	Writing Skills			Write a paragraph on a given topic	14	
				Write a clear topic sentence using specific words, vivid verbs, modifiers, etc	15	
				Write a narrative in the first or third person which describes events/ incidents		
				1. Use sequential order	16	
				2. Use specific adjectives and adverbs	17	
				3. Use appropriate tense	18	
				Write formal letters to people in immediate and extended social and academic environment for various purposes:		
				1. Follow conventions of formal letter with respect to layout, salutations etc	19	
				2. Recognize and demonstrate use of appropriate vocabulary, style and tone in formal letters	20	
				Write applications to people in extended environment		
				1. Correct format, layout	21	
				2. appropriate vocabulary, style, tone	22	
3	Formal and Lexical Aspects of Language (Vocabulary)			Build and use appropriate vocabulary and correct spelling for effective communication:	23	
4	Grammar and Structure	4.1	Nouns, Noun Phrases and clauses	Demonstrate use of more common and proper, collective nouns.	24	0.43
		4.2	Pronouns	Demonstrate use of pronouns as subject and object, Recognize function of, and use possessive, reflexive and emphatic pronouns	25	0.61
				Demonstrate extended use of question words	26	
				Identify, and demonstrate function and use of relative pronouns which, who, and that	27	0.57
				Use more indefinite pronouns	28	0.62
				Demonstrate use of pronoun-antecedent agreement recognizing their relationship	29	

Sr No	Content	Sr No	Sub Content	SLO	SLOs No	M
		4.3	Articles	Apply rules of a, an, and the wherever applicable in speech and writing	30	0.67
		4.4	Verbs	Illustrate use of helping verbs in writing	31	0.63
				Illustrate use of linking verbs	32	0.62
				Illustrate use of regular and irregular verbs in writing	33	0.53
				Convert and use present and past participles	34	
				Recognize and demonstrate function and use of infinitives	35	0.44
		4.5	Tenses	Illustrate use of tenses learnt earlier	36	0.57
				Recognize the form and various functions; and illustrate use of Past Perfect Tense	37	0.67
		4.6	Adjectives and adjective phrases	Classify adjectives into different types change and use degrees of adjectives with reference to than and the	38	0.58
				Locate the varying position of adjectives in sentences	39	0.57
				Form adjectives from nouns and verbs	40	0.40
		4.7	Adverbs and adverbials	Recognize varying positions of adverbs in sentences according to their kinds and importance	41	0.62
		4.8	Prepositions and prepositional phrases	Illustrate use of prepositions of position, time, movement and direction	42	0.50
				Illustrate use of since and for	43	0.71
		4.9	Transitional devices	Apply rules of capitalization wherever applicable	44	0.55
				Illustrate use of punctuation marks learnt earlier	45	0.53
				Recognize and rectify faulty punctuation in given passages and own work	46	
		4.10	Types of Sentences	Classify, use, convert and make declarative (affirmative and negative), interrogative, exclamatory, and imperative sentences	47	0.54
				Use first and second conditional sentences	48	0.40
				Identify active and passive voice in sentences	49	0.51
				Direct & Indirect narration (Simple Present & Past)	50	0.46

Table 3.11

SLO wise Analysis of Islamiyat

Mean	SLO	SLOs No	Sub Content	Content	Sr No	Subject Field
0.79	دنیا اور آخرت کے تصور اور عقیدہ آخرت کی عقلی توجیہ بیان کریں	1	عقیدہ آخرت کا جزا اور عقلی توجیہ	1.1 عقیدہ آخرت اور تحریر سیرت میں اس کا کردار	1	ایمانیات و عبادات
	تحریر سیرت میں عقیدہ آخرت کے کردار کے بارے میں بیان کریں	2				
	عقیدہ آخرت بطور شجاعت، استقامت اور ایمان کے محرک کے طور پر بیان کریں	3	عقیدہ آخرت شجاعت، استقامت اور ایمان کا محرک	1.2		
0.47	حج کا مفہوم اور اس میں بیان کریں	4	الحج ایک اہم وحدت	2.1 حج اور اس کی عالمگیریت	2	
0.72	حج ادا کرنے کے طریقے اور یہ کات بیان کریں	5	مناسک حج اور حج ایک عظیم نعمت	2.2		
0.77	حضور ﷺ کے اخلاق حسنہ اور اس کے بارے میں بیان کریں	6	رحمت و شفقت اور غور و نظر	3.1 خلق عظیم	3	اسوۂ حسنہ
0.35	حضور ﷺ کے اخلاق حسنہ اور خلق عظیم کے مختلف پہلوؤں کے بارے میں بیان کریں	7	چاروںوں پر شفقت اور بچوں سے پیار	3.2		
0.81	صبر کا مفہوم اور صبر سے متعلق قرآنی تعلیمات بیان کریں	8	صبر سے متعلق قرآنی تعلیمات	4.1 صبر و تحمل	4	
0.62	صبر کے بارے میں حضور کا عمل اور استقامت واضح کریں	9	رسول اللہ کی استقامت	4.2		
	ایمانی عہد کا مفہوم بیان کریں	10	عہد و پورا کرنا، قسم اور قول کی پابندی	5.1 ایمان عہد	5	
0.34	قرآنی تعلیمات کی روشنی میں ایمان عہد کی تاکید اور وعدہ اخلاق کی سزایاں کریں	11	حسن عہد اور ایمان عہد دین داری کی علامت	5.2		
0.81	استقامت کا مفہوم اور اس کا اجماع بیان کریں	12	استقامت کا مفہوم اور اجماع	6.1 استقامت	6	
0.69	استقامت کے حوالے سے حضور اور صحابہ کے واقعات بیان کریں	13	حضور اور صحابہ کی استقامت	6.2		
0.67	حسن معاشرت کا مفہوم اور حسن معاشرت کی تاکید واضح کریں	14	حسن معاشرت کا مفہوم اور تاکید، مختلف پہلو	7.1 حسن معاشرت	7	
0.76	حسن معاشرت کے مختلف پہلوؤں اور حضور کے اسوۂ کے بارے میں بیان کریں	15	ماحول کی آلودگی سے گریز اور اسوۂ رسول تبول	7.2		
0.90	اخلاص و تقویٰ کا مفہوم اور اس کی حقیقت بیان کریں	16	اخلاص و تقویٰ کا مفہوم، تقویٰ کی حقیقت	8.1 اخلاص و تقویٰ	8	
0.51	معیار فضیلت، اخلاص و تقویٰ اور بندگی اخلاق کے بارے میں بیان کریں	17	معیار فضیلت، اخلاص و تقویٰ اور بندگی اخلاق	8.2		
	عدل و احسان کا مفہوم بیان کریں	18	عدل و احسان کا مفہوم اور اسوۂ رسول	9.1 عدل و احسان	9	
0.45	قرآنی تعلیمات اور اسوۂ رسول کی روشنی میں عدل و احسان کی مختلف صورتیں بیان کریں	19	عدل و احسان کی مختلف صورتیں	9.2		
	تبلیغ کا مفہوم بیان کریں	20	رسول اللہ کا انداز تبلیغ	10.1 انداز بیت و تبلیغ	10	
0.71	حضور ﷺ کا انداز تبلیغ اور حکمت تبلیغ بیان کریں	21	حضور کی حکمت تبلیغ	10.2		

0.45	گھر اہرت کا مہیوم اور اہرت بیان کریں	22	گھر اہرت کا مہیوم	11.1	گھر اہرت	11	
0.34	اہرت کی تیاری کے لیے کیا کما چاہیے اس کے بارے میں بیان کریں	23	اہرت کی تیاری	11.2			
	نشیوب الہیہ کا مہیوم اور حقیقت بیان کریں	24	نشیوب الہیہ کا مہیوم	12.1	نشیوب الہیہ	12	اخلاق کا دایا
0.66	امر بالمعروف اور نہی عن المنکر کا مہیوم اور اہرت بیان کریں	25	امر بالمعروف اور نہی عن المنکر	13.1	امر بالمعروف اور نہی عن المنکر	13	
	امر بالمعروف اور نہی عن المنکر کی شرائط بیان کریں	26	امر بالمعروف کی شرائط	13.2			
0.64	حقوق العباد کے حوالے سے قرآنی احکامات، اسوہ رسول ﷺ اور صحابہ کے طرز عمل کی وضاحت کریں	27	قیموں کے حقوق، قرآنی احکام حضور کی تعلیمات	14.1	حقوق العباد	14	
0.65	بیواؤں، یتیموں، معذوروں اور مسافروں کے حقوق بیان کریں	28	بیواؤں، معذوروں، مسافروں کے حقوق	14.2			
0.53	کاروبار میں دیانت کا مہیوم اور دیانت داری کا انضام بیان کریں	29	کاروبار میں دیانت کا انضام	15.1	کاروبار میں دیانت	15	
0.65	دیانت داری کی جزا اور بددیانتی کی سزا اور نفع و نقصان واضح کریں	30	بددیانتی کی سزا، نفع و نقصان	15.2			
0.59	منافقت کا مہیوم اور رشع داروں سے اخلاص و محبت کا مہیوم بیان کریں	31	منافقت کا مہیوم، رشع داروں سے اخلاص و محبت	16.1	تعلقات میں منافقت سے اجتناب	16	
	عکراؤں سے تعلقات کی نوعیت اور سماجی کارکنوں سے حسن سلوک واضح کریں	32	عکراؤں سے تعلقات کی نوعیت، سماجی کارکنوں سے حسن سلوک	16.2			
0.76	منافقت طرز عمل کے قصائد اور دو غلطے پن کا اہرت میں انضام بیان کریں	33	منافقت طرز عمل کے قصائد، دو غلطے پن کا اہرت میں انضام	16.3			
0.28	جہاد کا مہیوم اور جہاد کی فریضہ بیان کریں	34	جہاد کا مہیوم اور جہاد کی فریضہ	17.1	جہاد	17	
0.78	جہاد کے مقاصد و شہید کا مقام واضح کریں	35	جہاد کے مقاصد و شہید کا مقام	17.2			
	ایک دائمی عمل کی حیثیت سے جہاد کے حوالے سے اپنی ذمہ داریاں بیان کریں	36	جہاد ایک دائمی عمل، ہماری ذمہ داریاں	17.3			
0.71	اتحادی کا مہیوم اور اتحاد و عبادات کے لحاظ سے بیان کریں	37	اتحادی کا مہیوم، اتحاد اور عبادات کے لحاظ سے اتحاد	18.1	اتحادی	18	
	معاشرتی زندگی کے اصول و قوانین اور عملی زندگی کے تمام اعمال میں یکسانیت بیان کریں	38	معاشرتی زندگی کے اصولوں اور عملی زندگی کے تمام اعمال میں یکسانیت	18.2			
0.40	اتحاد کی اہرت کے بارے میں اللہ اور اس کے رسول ﷺ کے احکامات بیان کریں	39	اتحاد پر اللہ اور رسول کے احکامات	18.3			
0.65	حضرت عیسیٰ علیہ السلام کے حالات، معجزات اور دعوت تبلیغ کے بارے میں بیان کریں	40	حضرت عیسیٰ علیہ السلام کے حالات، معجزات، دعوت تبلیغ	19.1	حضرت عیسیٰ علیہ السلام	19	
	حضرت عیسیٰ کے بارے میں بیبوساژ، سرائے موت یا آسمان پر اٹھایا جانا اور نبی آخر الزماں حضور کی ابتا رت کے بارے میں بیان کریں	41	بیبوساژ، سرائے موت اور آسمان پر اٹھایا جانا، نبی آخر الزماں کی ابتا رت	19.2			

0.74	حضرت سلمان فارسی کے ہمدردی حالات، خانہ دہلی پس مختار اور چاقی کی تلاش اور آزمائش کے بارے میں بیان کریں	42	سلمان بن اسلام خانہ دہلی پس مختار، چاقی کی تلاش اور آزمائش	20.1	حضرت سلمان فارسیؓ	20	
	سفر شام، نیک خوراء ب کے قمر اور شرب کی طرف سفر کے بارے میں تفصیلی بیان کریں	43	شام کا سفر، نیک خوراء ب کا مشورہ شربت کی طرف سفر	20.2			
	حضورؐ کی شرب شریف، آوری اور سلمان فارسیؓ کی با نگاہ رہالت میں حاضری اور قبول اسلام کے بارے میں بیان کریں	44	رسولؐ کی شرب شریف آوری اور حضرت سلمانؓ کا قبول اسلام	20.3			

Table 3.12

SLO wise Analysis of Maths

Sr No	Sub-contents	SLO	SLOs No	M
1.1	Concepts about sets	Define subset of a set	1	0.56
		Identify subset of a given set	2	0.63
		Find all the subset of a given set	3	0.57
		Describe and give examples of equality of two sets	4	0.59
		Describe and identify Universal Set	5	0.49
		Define complement of a set	6	
		Finding complement of a set relative to a universal set	7	0.61
		Define power set of a set, knowing the symbols used for power set	8	0.65
		Find power set $P(\square)$ of a set A.	9	0.55
1.2	Operations on Sets	Find Union and intersection of three Sets	10	0.57
		Verify associative laws with respect to union and intersection of sets	11	
2.1	Rational Number	Define rational number	12	
		Recognize rational numbers	13	0.61
		Knowing the properties of rational numbers (Closur property, Identity element and invers element w.r.t + and $\square$)	14	0.52
		Define properties of equality of rational numbers (Reflexive, symetric, transitive, addativies and multiplicative property)	15	0.53
		Define properties of inequalities of rational numbers (Trichotomy, transitive, additive and multiplicative/division property)	16	0.43
		Solve the problems relating to the properties of rational numbers	17	
3.1	Number System	Define and understand base of a number system	18	
		Describe number system with base 2	19	
		Descirbe significance of the number system with base 2 (binary system)	20	
		Descirbe number system with base 5	21	0.57
		Descirbe decimal system (system with base 10)	22	
3.2	Conversions	Convert a number from decimal system to the systems with base 2 and 5 and vice versa.	23	0.61
		Add, subtract and multiply numbers with base 2 and base 5	24	0.59
		Add, subtract and multiply numbers with different bases.	25	0.55
4.1	Compound Proportion	Define direct, inverse and compound proportion.	26	0.33
		Solve real life problems involving direct, inverse and compound proportion.	27	0.54
5.1	Square Roots	Find square root of a natural number	28	0.70
		Find the Square root of common fractions which are perfect squares	29	0.59
		Find the Square root of a decimal fractions which are perfect squares (e.g. 0.01, 1.21, 0.64).	30	
		Define an irrational number	31	
		Find square root (upto 3 decimal places) of a number which is not a perfect square (e.g., the numbers 2,3,2.5 etc.).	32	0.29
		Solve real life problems involving square roots.	33	
6.1	Percentage Profit and Loss	Find percentage profit and percentage loss. When commission is allowed.	34	0.51
		Solve problems of profit and loss involving successive transactions and comparison of two transactions.	35	0.63
6.2	Insurance	Describe concept of insurance.	36	
		Solve real life problems regarding life insurance and vehicle insurance etc.	37	0.52
6.3	Income Tax	Understand the concept of gross, net and taxable income.	38	0.56
		Solve simple real life problems related to individual income tax assessee.	39	0.27
7.1	Operations on Polynomials	Simplifying algebraic expressions involving brackets	40	
		Evaluating algebraic expressions	41	
		Add, subtract and multiply polynomials of degree up to 4	42	0.52
		Divide a polynomial of degree up to 4 by a polynomial of degree up to 2	43	0.52
7.2	Basic Algebraic Formulas	Establishing the formula $(x+a)(x+b) = x^2 + (a+b)x + ab$	44	0.20

		Establishing the formula $(a+b)^2 = a^2 + 2ab + b^2$	45	0.45
		Establishing the formula $(a-b)^2 = a^2 - 2ab + b^2$	46	0.22
		Establishing the formula $a^2 - b^2 = (a-b)(a+b)$	47	0.38
		Factorize the expression of the type $ka + kb + kc$	48	0.43
		Factorize the expression of the type $ac + ad + bc + bd$	49	
		Factorize the expression of the type $a^2 \pm 2ab + b^2$	50	0.48
		Factorize the expression of the type $a^2 - b^2$	51	0.50
		Factorize the expression of the type $x^2 + px + q$	52	0.48
7.3	Simultaneous Linear Equations	Recognize linear equations in one and two variables.	53	0.44
		Convert an equation equivalent to a linear equation in two variables.	54	0.43
		Recognize simultaneous linear equations in two variables.	55	0.69
7.4	Solution of Simultaneous Linear Equations	Solve the simultaneous linear equations in two variables e.g.,	56	0.30
		Formation of simultaneous linear equations from world problems.	57	
		Solve the real life problems involving simultaneous linear equations in two variables.	58	
8.1	Pythagoras Theorem	State the Pythagoras theorem and give its informal proof	59	0.34
		Solve right angled triangles using Pythagoras theorem.	60	0.49
8.2	Hero's Formula	State and apply Hero's formula to find the areas of triangular and quadrilateral regions.	61	0.37
8.3	Surface Area and Volume	Find the surface area and volume of a sphere.	62	0.45
		Find the surface area and volume of a cone.	63	0.39
		Solve real life problems involving surface area and volume of sphere and cone.	64	0.36
8.4	Construction	Dividing a line segment in a given number of parts and in a given ratio	65	0.52
		Constructing a triangle whose perimeter and the ratio among the sides are given	66	0.38
		Define a polygon.	67	0.47
		Define regular pentagon, hexagon and octagon.	68	0.64
		Construct a regular Pentagon, hexagon and regular Octagon	69	0.65
		Define diagonal of a Square and a rhombus	70	0.48
		Know the properties of the diagonals of a square and a rhombus	71	0.49
		Constructing a square and rhombus when measures of their diagonals are given	72	
9.1	Frequency Distribution	Define the concept of frequency and frequency distribution.	73	
		Construct frequency table.	74	
		Understand the concept of histogram	75	
		Construct and interpret a histogram	76	
		Understand the concept mean, mode and median	77	
		Find mean, mode and median from the given data	78	
		Solve word problem from everyday life involving mean, mode and median	79	

Table 3.13

SLO wise Analysis of Science

Sr No	Content	Sr No	Sub Content	SLO	SLOs Sr NO	M
1	Heredity in Organisms	1.1	Basis of Heredity (chromosomes, DNA and Genes in plant and Animal cells)	Define heredity and recognize its importance in transferring of characteristics from parents to off springs	1	0.83
				Identify the characteristics that can be transferred from parents to off springs	2	0.79
				Compare characteristics related to ear and eye colour	3	0.75
2	Biotechnology	2.1	Biotechnology	Define biotechnology	4	0.46
		2.2	Introduction of Gene into Bacterium	Describe the relationship between DNA, Genes and Chromosomes	5	0.68
				List general applications of biotechnology in various fields	6	0.66
				Explain how biotechnology allows to grow the disease resistant crops	7	
3	Environment	3.1	Effects of Human Activity on Environment (Green house Effect, Ozone Depletion and Global Warming, Acid Rain, Wild Life, Deforestation, Lack of Energy resources)	Explain the Greenhouse effect	8	0.64
		3.2	Saving the Earth (Solid Waste Management, Recycling of Materials, Conservation of Resources, Environmental Campaigns, Responsibility for All)	Describe the causes and effects of ozone depletion	9	0.43
				Define deforestation	10	
				State the effects of deforestation on the environment	11	0.27
				Identify human activities that have long-term adverse consequences on the environment	12	0.85
				Suggest ways in which individuals, organizations and government can help to make earth a better place to live	13	0.65
4	Chemical Reactions	4.1	Chemical Reactions (Definition & Applications)	Define chemical reactions and give examples	14	0.66
		4.2	Chemical Equation and Balancing	Explain the rearrangement of atoms in chemical reactions	15	
		4.3	Law of conservation of Mass	Explain the balancing of a chemical reaction	16	0.37
		4.4	Types of Chemical Reactions (Addition and Decomposition)	Define the law of conservation of mass	17	0.41
				Explain the types of chemical reactions with examples	18	0.41
5	Acids, Bases and Salts	5.1	Introduction to Acids, Alkalis and Salts	Define the terms acid, base and salt	19	0.46
		5.2	Properties of Acids, Alkalis and Salts	Describe the properties of acids, base and salts	20	0.55
		5.3	Uses of Acids, Alkalis and Salts	Explain the uses of acid, alkali and salt in daily life	21	0.53
6	Thermal Expansion	6.1	Thermal Expansion and Contraction (Solids, Liquids and Gases)	Explain thermal expansion of solids, liquids and gases	22	0.55
7	Lenses	7.1	Lenses	Define Lens	23	0.44
		7.2	Types of Lenses (Converging and Diverging Lenses)	Differentiate between the different types of lenses	24	
		7.3	Image Formation by Ray Diagram	Describe the image formation using a lens by ray diagram	25	0.32
		7.4	Image Formation in simple	Compare and contrast the working of	26	0.45

Sr No	Content	Sr No	Sub Content	SLO	SLOs Sr NO	M
			Camera and Human eye	a human eye with the lens camera		
		7.5	Uses of Lenses	Explain how eye focuses by altering the thickness of the eye lens	27	0.38
				Explain how eyes get used to darkness after some time	28	0.40
8	Living Things	8.1	Classification of living things. Need for classification	Describe living things	29	0.61
		8.2	Micro-organisms	State that micro-organism are a group of small and diverse organisms	30	0.50
		8.3	Viruses	Describe nature and occurrence of viruses. Name some important diseases caused by viruses	31	0.49
		8.4	Bacteria	Described occurrence and shape of bacteria. Name some important diseases caused by bacteria	32	0.73
				Discuss in what ways bacteria are important to men. Become familiar with some simple technologies life fermentation, preservation of food, pasteurization and vaccination	33	0.61
		8.5	Plant kingdom. Non-Flowering Plants	Give diagnostic characters and local examples of non-flowering groups of plants (Algae, Fungi, Mosses, Ferns and Conifers)	34	0.49
		8.6	Flowering Plants	Give diagnostic characters and local common examples of flowering plants	35	0.41
9	Animal Kingdom	9.1	Invertebrates	Describe the diagnostic characteristics and local examples of various invertebrate phyla	36	0.53
		9.2	Vertebrates	Describe the diagnostic characteristics and local examples of various vertebrate classes. Using simple keys classify animals into classes	37	0.47
		9.3	Taking care of plants and animals and their products	Explain the measures to be taken for caring of plants	38	
				Describe the measure to prevent food spoilage and preservation	39	
				Describe the modern agricultural techniques for production of milk, Meat and other dairy products	40	
10	Environment	10.1	Population and community	Define population and community. Describe factors for increase and decrease of population. Determine the effects of over population on environment	41	
11	Matter and its properties	11.1	Language of Chemistry	Symbols of elements and formulae of the simple compounds	42	0.59
		11.2	Chemical bond	The importance of chemical bond in Chemistry	43	0.70
				The formation of ionic and covalent bond	44	0.44
		11.3	Carbon and its Compounds	Describe Occurrence, natural form and common properties of carbon	45	0.36
				Industrial preparation of carbon dioxide, properties and uses	46	0.44
		11.4	Parts of candle flame	The difference in the regions of a candle flame	47	0.36
		11.5	Form simple raw materials to useful products	Describe about the manufacture of useful products, description of Soaps, detergents and fertilizers	48	0.56
12	Motion and Force	12.1	Liquid pressure	Describe that the pressure in a liquid varies with depth	49	0.91
				Demonstrate liquids exert pressure in all directions	50	0.67
13	Energy	13.1	Temperature scales	Describe various temperature scales in use (F C K) and their inter-conversion	51	0.54

Sr No	Content	Sr No	Sub Content	SLO	SLOs Sr NO	M
14	Electricity and Magnetism	14.1	Potential difference	Describe the introductory concept of electric potential and potential difference	52	0.53
		14.2	Electric current and potential difference	Explain that the electric current varies with a change in potential difference	53	0.54
		14.3	Production of electricity	Describe the various ways to produce electricity	54	0.50
		14.4	Electric Power	Describe how electric power determines the consumption of electric energy and, Kwh' is the unit used to estimate the cost of electricity being consumed	55	0.56
		14.5	Electromagnetic induction	Explain induced current by relative motion of magnet and a coil	56	
15	Earth and Space	15.1	Rocks	List the three types of rocks according to the way in which they are formed	57	0.49
				Describe the constituents of rocks and information contained in it	58	0.58
		15.2	Life on earth	Explain how successive layers of sedimentary rocks and the fossils contained within them can be used to confirm the age, history and changing life forms of the earth	59	0.38
		15.3	Life and environmental conditions on earth	Discuss that fossils provide evidence of how life and environmental conditions have changed on the earth with time	60	0.47
		15.4	Minerals found in Pakistan	Explain about the minerals found in Pakistan and their uses	61	0.46
		15.5	Asteroids, comets and meteors	Describe characteristics and movement patterns of asteroids, comets and meteors in our solar system	62	0.42
		15.6	Galaxies and stars	Discuss that millions of galaxies and stars exist in the universe which are separated by incomprehensible distances	63	0.63
		15.7	The big bang	Discuss that origin of universe is assumed to be the result of big bang	64	0.71
		15.8	Stars	Describe the salient features of stars and constellations	65	0.63
				Identify Giant, Dwarfs, Neutron stars and Black holes	66	0.41

Table 3.14

SLO wise Analysis of Urdu

Mean	حاصلات تعلیم (Learning Outcomes)	Sub Sr No	مہارت (Skill)	Sr No
0.58	صحیح تلفظ کا خیال رکھے	1.1	پڑھنا	1
0.58	تلم و تشریح کران کے مفہوم سمجھے اور نتیجہ اخذ کرے	1.2		
0.66	دی گئی کہانی یا مضمون کے متعلق سوالات کے جوابات دے سکے۔	1.3		
0.56	تحریر پڑھ کر مصنف کا منظر سمجھ سکے	1.4		
	سکول / کلاس میگزین میں مضمون لکھنا اور اس کی ترتیب و تدوین میں شرکت کرے	2.1	لکھنا	2
0.56	رشتہ داروں اور دوستوں کو خط لکھے	2.2		
	اپنی ذاتی ڈائری میں روزمرہ کے معمولات، یادگار واقعات اور اخبارات سے دلچسپ معلومات رکھے	2.3		
0.55	اشارات کی مدد سے کہانی ترتیب دے	2.4		
0.41	مختصر کہانے لکھے	2.5		
	تحریر پڑھ کر خلاصہ لکھے	2.6		
	خطوط، درخواست، دگوت، مائے رواد، سفرنامہ اور رسیدیں لکھے	2.7		
0.59	نئے الفاظ کا مفہوم اور استعمال سمجھے اور اپنے جملوں میں استعمال کرے	3.1	زبان کی ساخت	3
0.54	سابقہ اور لاحقے کا استعمال	3.2		
0.42	اسم صفت کے درجات (تفصیل نفسی، تفصیل بعض، تفصیل کل)	3.3		
0.52	اسم علم، اسم موصول	3.4		
0.50	فعل معروف و مجهول، فعل ماضی کی اقسام (مطلق، قریب، بعید، شکلیہ، استمراری، شرطی، تمنائی)	3.5		
0.53	حروف ربط کا استعمال (نے، کو، سے، میں، تک، وغیرہ)	3.6		
0.61	مرکبات ماقص (مرکب اضافی، تو صغی، عطفی، جاری)	3.7		
0.43	مبتدا، خبر، قائل و مفعول، سادہ جملہ اسمیہ اور سادہ جملہ فعلیہ کی پہچان	3.8		
0.55	مجاورات کا استعمال	3.9		
0.55	عام طور پر غلط استعمال ہونے والے جملوں کی تصحیح	3.10		
0.48	متراطف، متضاد اور ہم صوت الفاظ کی مشق	3.11		
0.52	رموز و اوقاف کا استعمال (واوین، مستجابیہ، توسلین)	3.12		
	مضمون کہانی، تلم و تشریح کا مرکزی خیال بیان کرے	4.1	بولنا	4
	تصویر دیکھ کر کہانی سنائے	4.2		
0.55	جملہ سازی میں حصہ لے	5.1	قوت مشاہدہ، حافظہ، تفویض کی تربیت	5

Table 3.15

SLO wise Analysis of Social Studies

Sr. #	Content	Sr. #	Sub Content	SLO	SLOs No.	M
1	The Universe	1.1	Solar system.	Define Solar system	1	0.77
				Discuss solar system and show place of earth in it keeping in view the Quranic explanation	2	0.65
		1.2	Location and movement of earth:	Recognize the stem and orbital motion of earth and phenomenon of eclipse.	3	0.44
			i) Rotation and Revolution of earth.			
			ii) Day and Night.			
			iii) Seasons.			
		1.3	Eclipses			
		1.4	Continents.	Elaborate why the continents are significant.	4	0.55
		1.5	Pollution.	Identify the effects of land/air/water pollution and remedies.	5	0.59
			i) Land.			
			ii) Water			
			iii) Air			
		1.6	Oceans.	Discuss how the human life is affected by the movements of ocean.	6	0.49
			i) Seas.			
			ii) Waves			
			iii) Currents			
2	Major Climatic Regions of the World	2.1	Study of the following selected regions:	Recognized the regional distribution of the world with reference to various climates and discuss how the climatic variation affects the human life, animals and vegetation.	7	0.59
			i. Monsoon	Discuss how the climatic variation affects the human life, animal and vegetation	8	
			ii. Mediterranean	Discuss why Allah Almighty has rewarded the humanity with this variation	9	
			iii. Equatorial			
			iv. Temperate grass lands.			
			v Tundra			
		2.2	Global warming: the existing situation and causes	Explain the causes of Global warming and how the human beings are contributing towards it	10	0.52
3	World Resources	3.1	Human Resources and Professions	Discuss the various resources (human/physical) of the world in the perspective of interdependence and cooperation of professions	11	0.47
		3.2	Agriculture	Discuss the major occupations of the world and the dependent factors	12	0.57
		3.3	Livestock			
		3.4	Industry			
		3.5	Mining			
		3.6	Trade & Commerce	Explain the trade and commercial linkages of Pakistan with the World community and its significance for economic development.	13	0.58
		3.7	Impact of information technology in development	Evaluate the impact of information technology in converting the world into a global village	14	0.36
4	Population	4.1	World population distribution (brief) including Pakistan	Describe the population distribution in the world	15	0.55
		4.2	Dense and scattered population			
		4.3	Population growth in Pakistan	Discuss how the population growth trends are different in Pakistan as compared to developed countries of the	16	0.52

Sr. #	Content	Sr. #	Sub Content	SLO	SLOs No.	M
				world.		
		4.4	Elementary study of selected trends in Pakistan:			
			a) Urban/ Rural			
			b) Male/ Female			
			c) Age structure of children/Adults/ old age.			
			d) Work Force/ developments			
			e) Literate/ illiterate			
			f) Migration			
		4.5	Effects of Population growth on certain resources that human values:-	Discuss problems of high population increase in the form of unhygienic conditions, poverty, literacy, culture deterioration, terrorism and environmental degradation etc.	17	0.53
			a) Housing and settlements			
			b) Traffic and Transport			
			c) Health and sanitation			
			d) Environment			
			e) Education			
			f) Human values e.g. Equity	Discuss how the quality of life is related to the population growth with special reference to welfare of the common people in Pakistan.	18	
5	World Communication Transport and Trade with Pakistan	5.1	Communications: Introduction to variety in means of communications and global linkage.	Discuss vital importance of different modes of communication in light of the age 21 st Century	19	
			i) Telephone Network.			
			ii) Computer Network (internet).			
			iii) Fax, Radio, TV. Satellite			
		5.2	Transport	Explain that All types of transports provide opportunities for establishing and strengthening socio-culture and economic linkages inter- and intra-communities.	20	
			a) Land Transport:			
			i) Internal Highways/Motorways/ Railways.			
			ii) Providing Sea Link to Landlocked countries.			
			b) Air transport, Internal Air Network and Linkage with the world.			
			c) Ocean Transport:			
			i) Pakistan ports and Cargo ships			
			ii) Sea Route across Arabian Sea, in the Gulf and the Red Sea.			
		5.3	Social, commercial and economic impact of rapid communications		21	
				Explain social, commercial and economic impact of rapid communications on humans.		
		5.4	Important exports of	Enlist important exports of Pakistan	22	0.57

Sr. #	Content	Sr. #	Sub Content	SLO	SLOs No.	M
			Pakistan			
		5.5	Means of communication	Discuss modes of communication that link the nations of the world	23	0.61
		5.6	Communication networks that link Pakistan with the world			
		5.7	Transport linkages are essential for communication and trade			
6	Tourism	6.1	Significance and impact of Travelling. Prominent Travelers:	State significance and impact of travelling and justify 'Tourism' as source of providing exposure to past and present.	24	0.56
			i. Al-Baruni.			
			ii. Ibn-e-Batota.			
			iii. Marcopolo.			
				Highlight some expeditions of prominent travelers like Al-Baruni, Ibn-e-Batota and Marcopolo.	25	0.65
				Comment on:	26	0.45
				Tourism provides exposure of past and present.		
				Comment on:	27	0.59
				Tourism provides opportunities to understand land, people and their culture.		
				Comment on:	28	
				Exploration helps to chalk out future plan for development		
				Comment on:	29	0.41
				Discovery of knowledge equips the travelers to set guideline for development.		
				Comment on:	30	
				Adventurism causes enthusiasm in life		
		6.2	Emphasis of Quraanon Exploration and Discovery.	State the emphasis of Quraanon Exploration and Discovery	31	
			Prominent Discoverer			
			i. Columbus.			
			ii. Wascode Gamma.	Write notes on:	32	0.65
				i. Columbus		
				ii. Wascode Gamma		
		6.3	Navigation and map reading:			
			i. Land Routes.			
			ii. Sea Routes.			
		6.4	Tourism in Pakistan:			
			i. Places.			
			ii. Agencies promoting Tourism			
7	Ideology of Pakistan	7.1	Philosophy of Two Nations Theory	Comment on 'Emergence of Two Nation Theory was because of the ill attitude of Hindus towards the Muslim of the Sub- continent'.	33	0.42
			Reasons for the fall of Muslims in the Sub-content	Explain reasons for the fall of Muslims in the Sub- content	34	0.62
			Freedom movement	Highlight salient features of freedom movement	35	0.59
			War of independence 1857	Comment on 'War of independence of 1857 was struggle against the British rule over the Sub- continent'.	36	0.35
			Conditions of Muslims after 1857	Explain conditions of Muslims after 1857	37	0.55
			Ideology of Pakistan	Comment on 'Ideology of Pakistan is based on the philosophy and spirit of	38	0.58

Sr. #	Content	Sr. #	Sub Content	SLO	SLOs No.	M
				Islam'.		
			Pakistan Resolution	Write a note on Pakistan Resolution	39	0.65
			Independence of Pakistan, 1947	Comment on 'Pakistan is a result of political struggle against English and Hindu Raj in the Sub- continent'	40	0.53
8	United Nation	8.1	Purpose	Discuss the aims and objectives of U.N.O	41	0.57
		8.2	Organization of UNO	Discuss in brief the functions of various organs of UNO	42	0.33
			a. General Assembly			
			b. Security Council			
			c. Secretariat			
			d. International Court & Justice			
		8.3	Special agencies	Discuss the role of UNO in promoting peace prosperity among various nations since world war II	43	0.71
			a. UNICEF			
			b. UNESCO			
			c. F.A.O			
			d. W.H.O			
			e. I.L.O			
			f. World Bank			
		8.4	International Problems	International Problems are not resolved because of vested interests of the big powers of world	44	0.40
			a. Kashmir			
			b. Palestine			
			c. Bosnia			
			d. Kosovo			
				Muslims of the world can safeguard their rights through collective efforts.	45	0.67

3.6. Cognitive Learning and Type of Question-wise Analysis of Scores in Tests by Districts

Table 3.16 shows the mean scores of students on test items from cognitive learning levels of BLOOM's taxonomy. Mean scores are converted into fraction of unit score by dividing mean score with the total score of item from respective level to make the scores comparable.

The purpose of these tables is to highlight the learning level in which students need support in each district. The unit score higher in application and higher level learning from lower level learning is marked red as its usually¹ considered that student scores more in lower level learning than higher level learning. This shows anomaly in results.

Moreover, the analysis of papers revealed non-uniform coverage of cognitive levels of learning e.g. in English questions were predominantly from understanding level and less number of questions were included to measure knowledge and application level.

¹ Unusual pattern mean that students are expected to score higher on items labeled as measuring lower order learning as compared to questions labeled as measuring higher order learning. For further details on issues related to designating the test questions with correct level of learning being measured read Kubiszyn, T. and Borich, G. D. (2003). *Educational Testing And Measurement: Classroom Application And Practice (Seventh Edition)*. New York: John Wiley and Sons

Table 3.16

District wise cognitive level analysis

District		English		Islamic		Math		Science		Social Study		Urdu	
		M	per item ¹	M	per item	M	per item	M	per item	M	per item	M	per item
Hafizabad	Knowledge	1.11	0.55	7.26	0.91	7.16	0.55	12.17	0.55	3.32	0.28	2.49	0.83
	Understanding	23.09	0.61	10.12	0.78	20.23	0.37	7.51	0.54	16.91	0.81	22.03	0.61
	Application			2.61	0.43	3.96	0.33	2.37	0.59	4.70	0.67	16.99	0.41
Jhang	Knowledge	1.41	0.71	6.96	0.87	8.42	0.65	15.22	0.69	9.06	0.75	2.88	0.96
	Understanding	28.59	0.75	9.36	0.72	29.98	0.55	8.72	0.62	15.58	0.74	27.17	0.75
	Application			4.53	0.75	5.89	0.49	2.79	0.70	4.70	0.67	20.49	0.50
Lodhran	Knowledge	1.36	0.68	6.87	0.86	8.04	0.62	14.64	0.67	8.40	0.70	2.89	0.96
	Understanding	26.63	0.70	9.21	0.71	27.17	0.49	8.83	0.63	14.54	0.69	26.41	0.73
	Application			4.53	0.76	5.29	0.44	2.74	0.68	4.53	0.65	19.97	0.49
Pakpattan	Knowledge	1.12	0.56	6.48	0.81	7.15	0.55	12.06	0.55	7.13	0.59	2.86	0.95
	Understanding	20.66	0.54	8.85	0.68	26.51	0.48	6.72	0.48	13.24	0.63	23.03	0.64
	Application			4.23	0.70	4.42	0.37	2.46	0.62	3.91	0.56	22.25	0.54
Rajapur	Knowledge	0.82	0.41	1.88	0.24	4.08	0.31	4.63	0.21	3.72	0.31	0.08	0.03
	Understanding	9.84	0.26	2.60	0.20	17.63	0.32	2.72	0.19	6.19	0.29	6.18	0.17
	Application			0.44	0.07	4.29	0.36	0.23	0.06	1.16	0.17	19.24	0.47
Rawalpindi	Knowledge	0.69	0.34	1.70	0.21	3.86	0.30	4.94	0.22	2.99	0.25	0.08	0.03
	Understanding	9.05	0.24	2.56	0.20	15.04	0.27	2.73	0.20	5.02	0.24	6.81	0.19
	Application			0.52	0.09	3.06	0.26	0.34	0.09	1.66	0.24	17.32	0.42
Faisalabad	Knowledge	0.76	0.38	5.00	0.63	12.43	0.48	12.68	0.47	4.04	0.50	0.64	0.32
	Understanding	21.79	0.57	10.45	0.75	21.99	0.35	4.11	0.46	14.23	0.62	22.63	0.67
	Application			3.97	0.79	1.43	0.72	2.60	0.65	3.75	0.42	22.59	0.51
Jehlum	Knowledge	0.78	0.39	4.82	0.60	12.30	0.47	14.71	0.54	4.07	0.51	0.65	0.32
	Understanding	21.61	0.57	9.78	0.70	20.02	0.32	4.05	0.45	13.73	0.60	21.72	0.64

¹ Per item score should be read as, if the total marks of the questions measuring knowledge/understanding/application is assumed '1' then the student achievement can be read as equal to given fraction/decimal e.g. per item score in knowledge = mean score on item from knowledge level/ total marks allocated to items pertaining to knowledge level, $1.1/2 = 0.55$

	Application			3.68	0.74	1.35	0.68	2.47	0.62	3.79	0.42	19.42	0.44
Kasur	Knowledge	0.76	0.38	4.90	0.61	11.32	0.44	14.73	0.55	4.07	0.51	0.68	0.34
	Understanding	21.11	0.56	10.02	0.72	21.18	0.34	4.00	0.44	13.87	0.60	21.70	0.64
	Application			3.77	0.75	1.37	0.69	2.54	0.63	3.87	0.43	23.49	0.53
Mianwali	Knowledge	0.87	0.44	5.37	0.67	12.87	0.49	16.89	0.63	4.90	0.61	0.64	0.32
	Understanding	24.18	0.64	10.44	0.75	22.35	0.36	4.40	0.49	15.20	0.66	23.30	0.69
	Application			4.07	0.81	1.40	0.70	2.95	0.74	4.26	0.47	22.58	0.51
Narowal	Knowledge	0.97	0.48	5.15	0.64	13.22	0.51	15.81	0.59	4.49	0.56	0.82	0.41
	Understanding	24.84	0.65	10.20	0.73	21.04	0.34	4.34	0.48	14.80	0.64	23.29	0.68
	Application			3.95	0.79	1.43	0.72	2.58	0.65	4.30	0.48	20.85	0.47
Sahiwal	Knowledge	0.93	0.47	5.42	0.68	14.13	0.54	14.88	0.55	4.82	0.60	0.70	0.35
	Understanding	25.41	0.67	10.72	0.77	27.15	0.44	4.53	0.50	15.53	0.68	24.51	0.72
	Application			4.17	0.83	1.58	0.79	2.91	0.73	4.24	0.47	25.54	0.58
Bhakkar	Knowledge	1.51	0.75	6.26	0.78	9.05	0.65	12.16	0.49	8.90	0.68	2.87	0.96
	Understanding	27.82	0.73	10.93	0.78	19.55	0.48	6.23	0.48	15.40	0.77	23.27	0.68
	Application			3.54	0.71	11.46	0.46	1.18	0.59	3.65	0.52	22.74	0.53
Chiniot	Knowledge	1.50	0.75	6.13	0.77	9.30	0.66	15.99	0.64	8.71	0.67	2.85	0.95
	Understanding	27.07	0.71	10.69	0.76	21.25	0.52	7.48	0.58	14.73	0.74	22.47	0.66
	Application			3.37	0.67	12.07	0.48	1.10	0.55	3.48	0.50	25.89	0.60
Gujrat	Knowledge	1.13	0.57	5.72	0.71	7.75	0.55	14.68	0.59	7.50	0.58	2.81	0.94
	Understanding	22.46	0.59	10.27	0.73	17.40	0.42	6.08	0.47	13.52	0.68	19.79	0.58
	Application			3.31	0.66	8.46	0.34	0.79	0.40	2.95	0.42	21.37	0.50
Khanewal	Knowledge	1.40	0.70	5.96	0.75	8.07	0.58	15.87	0.63	8.27	0.64	2.83	0.94
	Understanding	25.05	0.66	10.58	0.76	18.91	0.46	6.77	0.52	14.30	0.72	21.05	0.62
	Application			3.39	0.68	9.30	0.37	0.96	0.48	3.44	0.49	21.99	0.51
Muzafargarh	Knowledge	1.76	0.88	6.45	0.81	9.51	0.68	19.23	0.77	9.80	0.75	2.86	0.95
	Understanding	31.30	0.82	11.10	0.79	25.14	0.61	9.04	0.70	16.13	0.81	25.86	0.76
	Application			3.73	0.75	14.83	0.59	1.22	0.61	4.06	0.58	28.61	0.67
Sialkot	Knowledge	1.20	0.60	5.83	0.73	6.96	0.50	14.55	0.58	7.45	0.57	1.14	0.38
	Understanding	22.76	0.60	10.28	0.73	17.34	0.42	6.12	0.47	13.41	0.67	7.79	0.23
	Application			3.23	0.65	9.87	0.39	0.73	0.37	3.00	0.43	15.20	0.35

D.G.Khan	Knowledge	0.94	0.47	2.86	0.29	4.65	0.42	8.51	0.34	3.22	0.25	0.47	0.12
	Understanding	12.26	0.32	3.19	0.27	15.78	0.37	3.33	0.28	5.44	0.25	11.49	0.34
	Application			1.82	0.36	11.23	0.43	0.15	0.05	0.84	0.17	24.20	0.58
Khushab	Knowledge	1.27	0.64	6.84	0.68	8.37	0.76	14.98	0.60	7.62	0.59	2.30	0.58
	Understanding	21.71	0.57	8.96	0.75	19.75	0.46	5.47	0.46	11.88	0.54	21.99	0.65
	Application			4.09	0.82	9.60	0.37	1.91	0.64	2.47	0.49	20.69	0.49
Lahore	Knowledge	1.32	0.66	6.45	0.64	6.82	0.62	15.14	0.61	7.24	0.56	3.29	0.82
	Understanding	21.35	0.56	8.66	0.72	19.43	0.45	1.84	0.15	13.03	0.59	20.75	0.61
	Application			3.92	0.78	9.68	0.37	5.38	1.79	2.31	0.46	22.41	0.53
R.Y.Khan	Knowledge	1.38	0.69	6.64	0.66	4.69	0.43	15.76	0.63	7.80	0.60	3.30	0.82
	Understanding	22.98	0.60	9.00	0.75	16.08	0.37	5.65	0.47	14.33	0.65	22.30	0.66
	Application			4.09	0.82	10.83	0.42	2.01	0.67	2.48	0.50	19.95	0.48
T.T.Singh	Knowledge	0.85	0.43	2.92	0.29	4.71	0.43	7.98	0.32	3.27	0.25	0.38	0.10
	Understanding	11.73	0.31	2.88	0.24	15.57	0.36	2.55	0.21	5.66	0.26	10.27	0.30
	Application			1.78	0.36	10.42	0.40	0.22	0.07	0.83	0.17	23.20	0.55
Vehari	Knowledge	0.86	0.43	2.83	0.28	4.69	0.43	8.16	0.33	3.28	0.25	0.40	0.10
	Understanding	11.91	0.31	2.90	0.24	16.08	0.37	2.94	0.25	5.68	0.26	10.36	0.30
	Application			1.05	0.21	10.83	0.42	0.17	0.06	0.92	0.18	23.48	0.56
Attock	Knowledge	0.92	0.46	7.40	0.74	5.64	0.43	14.02	0.50	2.96	0.49	3.48	0.70
	Understanding	24.59	0.65	8.87	0.68	15.94	0.37	6.27	0.63	18.02	0.67	19.41	0.57
	Application			2.73	0.68	10.56	0.44	0.98	0.49	4.39	0.63	21.04	0.51
Bahawalpur	Knowledge	0.73	0.37	7.76	0.78	6.24	0.48	15.56	0.56	2.90	0.48	3.58	0.72
	Understanding	23.68	0.62	9.40	0.72	15.06	0.35	6.38	0.64	17.16	0.64	19.00	0.56
	Application			1.66	0.42	10.96	0.46	1.07	0.53	4.14	0.59	20.98	0.51
Gujranwala	Knowledge	1.06	0.53	7.74	0.77	6.83	0.53	15.35	0.55	3.00	0.50	3.58	0.72
	Understanding	25.95	0.68	9.34	0.72	16.44	0.38	6.58	0.66	18.66	0.69	20.31	0.60
	Application			2.84	0.71	11.29	0.47	1.14	0.57	4.35	0.62	22.99	0.56
Layyah	Knowledge	0.83	0.42	7.95	0.80	6.57	0.51	16.30	0.58	3.06	0.51	3.52	0.70
	Understanding	23.50	0.62	9.42	0.72	15.55	0.36	6.61	0.66	18.53	0.69	20.23	0.59
	Application			3.00	0.75	11.96	0.50	1.04	0.52	4.45	0.64	22.76	0.56

Nankana	Knowledge	0.82	0.41	7.54	0.75	6.63	0.51	14.63	0.52	2.84	0.47	3.51	0.70
	Understanding	22.84	0.60	9.00	0.69	15.87	0.37	6.08	0.61	17.07	0.63	18.43	0.54
	Application			2.85	0.71	10.33	0.43	0.94	0.47	4.07	0.58	19.66	0.48
Sargodha	Knowledge	0.97	0.49	7.98	0.80	7.67	0.59	16.77	0.60	3.11	0.52	3.61	0.72
	Understanding	27.08	0.71	9.61	0.74	17.71	0.41	6.77	0.68	18.85	0.70	20.97	0.62
	Application			3.00	0.75	11.74	0.49	1.11	0.55	4.43	0.63	23.27	0.57
Bahawalnagar	Knowledge	0.17	0.09	0.64	0.11	5.83	0.45	8.10	0.28	2.40	0.34	0.91	0.15
	Understanding	13.81	0.36	3.18	0.20	8.27	0.19	3.40	0.31	8.41	0.31	7.38	0.22
	Application			1.09	0.22	6.55	0.27			0.85	0.14	21.57	0.53
Chakwal	Knowledge	0.54	0.27	1.71	0.28	4.71	0.36	5.54	0.19	2.13	0.30	1.12	0.19
	Understanding	14.21	0.37	5.92	0.37	7.61	0.18	1.79	0.16	5.96	0.22	7.68	0.23
	Application			1.40	0.28	9.51	0.40			1.36	0.23	20.06	0.49
M.B Din	Knowledge	1.22	0.61	4.32	0.72	7.12	0.55	14.86	0.51	3.87	0.55	4.29	0.72
	Understanding	23.51	0.62	10.03	0.63	13.97	0.32	5.77	0.52	17.76	0.66	20.66	0.63
	Application			3.91	0.78	6.28	0.26			3.30	0.55	20.65	0.50
Multan	Knowledge	1.52	0.76	4.39	0.73	7.90	0.61	18.45	0.64	4.87	0.70	4.51	0.75
	Understanding	28.13	0.74	10.54	0.66	16.29	0.38	6.75	0.61	19.15	0.71	23.35	0.71
	Application			4.11	0.82	7.43	0.31			3.62	0.60	23.77	0.58
Okara	Knowledge	1.21	0.60	3.57	0.60	6.91	0.53	15.25	0.53	3.75	0.54	4.32	0.72
	Understanding	22.53	0.59	9.15	0.57	13.58	0.32	5.65	0.51	17.41	0.64	19.99	0.61
	Application			3.89	0.78	6.29	0.26			3.13	0.52	20.86	0.51
Sheikhupura	Knowledge	0.23	0.11	0.82	0.14	5.66	0.44	7.20	0.25	2.09	0.30	1.04	0.17
	Understanding	13.17	0.35	3.31	0.21	8.07	0.19	3.22	0.29	7.86	0.29	7.62	0.23
	Application			1.10	0.22	5.55	0.23			1.81	0.30	20.93	0.51

Table 3.11 shows the district wise comparison between student's mean scores in CRQs and MCQs marked in red shows a unusual¹ pattern in results of subjects in districts where mean score of CRQs is higher than the mean score of MCQs.

Table 3.17a

District wise comparison between CRQs and MCQs

District		N	English		Islamiat		Math	
			M	SD	M	SD	M	SD
Attock	Constructed Response	18,498	44.49	25.74	45.47	21.69	41.11	21.94
	Multiple Choice		63.51	21.92	70.10	13.50	53.48	14.93
Bahawalnagar	Constructed Response	16,646	44.91	23.14	55.86	21.03	29.34	19.18
	Multiple Choice		34.91	5.37	18.17	5.83	33.84	6.48
Bahawalpur	Constructed Response	24,103	47.19	23.29	55.18	20.98	43.42	24.48
	Multiple Choice		60.56	19.65	69.31	12.55	54.27	19.37
Bhakkar	Constructed Response	13,764	38.63	24.35	48.48	19.64	38.71	23.59
	Multiple Choice		73.20	17.15	76.46	12.41	60.24	18.98
Chakwal	Constructed Response	24,105	47.19	23.30	55.18	20.98	43.42	24.48
	Multiple Choice		36.66	7.36	36.41	6.57	27.88	7.25
Chiniot	Constructed Response	9,652	37.18	24.77	56.83	20.92	41.88	25.97
	Multiple Choice		70.92	18.69	74.32	13.06	62.81	17.77
D.G.Khan	Constructed Response	18,726	51.11	25.65	60.59	19.88	42.35	26.95
	Multiple Choice		41.71	6.54	28.99	6.81	35.77	8.20
Faisalabad	Constructed Response	16,779	39.97	25.32	46.04	21.88	34.11	22.14
	Multiple Choice		56.10	19.45	71.51	14.25	59.65	18.01
Gujranwala	Constructed Response	50,114	50.06	23.35	59.76	22.24	46.74	23.85
	Multiple Choice		67.37	22.10	73.37	13.15	59.26	17.05
Gujrat	Constructed Response	36,087	45.40	24.04	49.65	22.68	31.98	22.27
	Multiple Choice		69.40	19.22	71.23	13.11	51.20	16.58
Hafizabad	Constructed Response	12,378	29.87	23.20	37.82	21.73	25.24	19.47
	Multiple Choice		60.10	21.68	73.64	13.12	53.33	16.69
Jhelum	Constructed Response	18,459	33.52	24.78	37.62	21.39	29.90	21.85
	Multiple Choice		55.85	19.31	67.26	15.31	58.10	19.80
Jhang	Constructed Response	23,694	47.93	23.81	53.67	18.46	45.67	22.87
	Multiple Choice		74.85	19.07	76.81	12.00	64.81	17.14
Kasur	Constructed Response	30,737	37.53	24.48	55.93	21.89	33.43	22.09
	Multiple Choice		54.41	19.65	68.88	14.55	55.23	17.61
Khanewal	Constructed Response	24,311	31.25	23.63	43.73	22.08	35.39	21.91
	Multiple Choice		65.96	19.71	73.56	12.99	54.24	18.25
Khushab	Constructed Response	13,628	36.71	25.24	54.63	22.85	33.49	24.67
	Multiple Choice		57.26	18.19	73.41	14.50	59.58	16.03

¹ Unusual pattern mean that students are expected to score higher on items labeled as measuring lower order learning as compared to questions labeled as measuring higher order learning. For further details on issues related to designating the test questions with correct level of learning being measured read Kubiszyn, T. and Borich, G. D. (2003). *Educational Testing And Measurement: Classroom Application And Practice (Seventh Edition)*. New York: John Willy and Sons

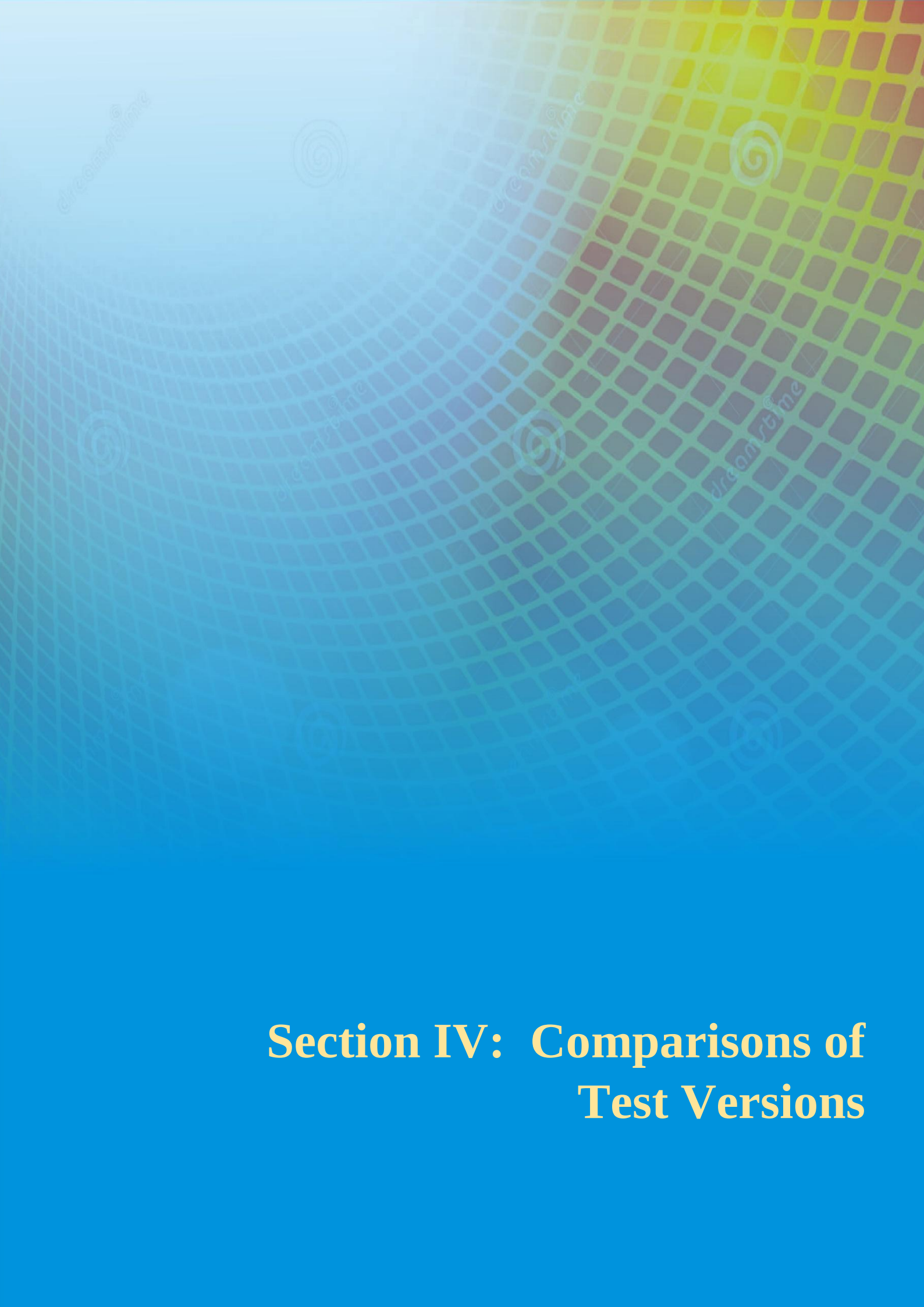
District		N	English		Islamiat		Math	
			M	SD	M	SD	M	SD
Lahore	Constructed Response	1,04,661	46.09	24.73	55.49	21.16	34.72	23.77
	Multiple Choice		56.52	18.27	70.17	15.16	53.64	15.88
Layyah	Constructed Response	16,969	45.10	26.08	52.69	27.59	48.41	24.68
	Multiple Choice		60.38	24.71	74.96	14.24	29.98	5.82
Lodhran	Constructed Response	16,523	52.92	23.73	53.69	25.59	44.98	25.23
	Multiple Choice		56.63	21.78	75.96	12.24	62.32	17.59
M. Baha-ud-din	Constructed Response	11,504	45.40	24.04	56.40	18.01	38.98	25.23
	Multiple Choice		69.40	19.22	76.06	11.69	62.32	17.67
Mianwali	Constructed Response	20,077	35.94	24.02	44.15	20.62	22.77	17.32
	Multiple Choice		61.52	18.89	70.60	14.15	53.89	16.32
Multan	Constructed Response	16,448	34.39	25.88	50.22	22.65	36.28	24.59
	Multiple Choice		62.39	17.37	73.27	14.43	59.67	18.20
Muzafargarh	Constructed Response	29,551	62.47	21.95	66.57	17.15	56.58	26.68
	Multiple Choice		82.46	15.08	78.57	11.41	65.99	20.68
Nankana	Constructed Response	17,931	36.91	25.23	44.21	22.66	39.89	23.08
	Multiple Choice		59.03	21.31	71.55	13.75	57.00	17.41
Narowal	Constructed Response	26,594	34.81	26.62	50.85	24.30	31.44	23.31
	Multiple Choice		63.91	19.61	70.71	14.70	61.38	19.31
Okara	Constructed Response	26,899	37.89	26.47	53.29	24.21	22.49	16.49
	Multiple Choice		59.00	18.92	64.71	13.20	51.86	16.02
Pakpattan	Constructed Response	14,115	43.80	23.55	49.73	22.64	42.90	21.81
	Multiple Choice		54.45	19.44	72.17	12.60	52.32	15.58
R.Y.Khan	Constructed Response	30,822	36.55	23.63	50.16	20.06	33.57	23.59
	Multiple Choice		60.73	18.33	72.67	13.23	57.08	16.71
Rajanpur	Constructed Response	9,341	42.48	22.73	59.45	17.50	36.07	20.57
	Multiple Choice		26.50	5.21	18.14	5.20	28.51	5.85
Rawalpindi	Constructed Response	41,850	34.84	23.00	44.59	21.80	26.72	20.23
	Multiple Choice		24.25	5.92	17.64	5.98	28.02	6.43
Sahiwal	Constructed Response	25,241	47.68	27.30	56.45	23.69	45.43	24.56
	Multiple Choice		65.68	18.57	74.91	13.29	66.20	17.07
Sargodha	Constructed Response	38,245	51.34	24.90	59.63	19.91	48.12	23.78
	Multiple Choice		69.95	20.56	75.99	12.58	64.64	17.38
Sheikhpura	Constructed Response	30,172	39.07	24.22	51.86	22.79	22.69	17.74
	Multiple Choice		33.42	6.10	19.42	6.53	32.70	6.94
Sialkot	Constructed Response	52,123	35.13	23.88	46.69	21.29	31.65	20.83
	Multiple Choice		59.70	19.05	71.26	13.44	52.80	15.90
T.T.Singh	Constructed Response	25,172	41.07	23.96	59.04	22.38	39.88	25.68
	Multiple Choice		30.83	6.95	27.98	6.92	36.05	8.13
Vehari	Constructed Response	24,083	39.91	24.68	56.08	19.38	42.09	26.49
	Multiple Choice		31.80	6.33	25.04	6.52	35.74	7.96

Table 3.17b

District wise comparison between CRQs and MCQs

District		N	Science		Social Study		Urdu	
			M	SD	M	SD	M	SD
Attock	Constructed Response	18,498	26.64	20.16	43.03	19.95	50.27	21.00
	Multiple Choice		54.14	16.68	63.13	15.77	59.26	14.82
Bahawalnagar	Constructed Response	16,646	40.46	20.63	48.36	17.46	53.74	17.33
	Multiple Choice		28.66	5.32	29.09	4.92	20.87	4.66
Bahawalpur	Constructed Response	24,103	29.90	21.14	44.13	18.13	50.11	18.22
	Multiple Choice		58.26	16.20	60.17	13.10	58.43	13.63
Bhakkar	Constructed Response	13,764	37.83	20.31	47.10	18.88	51.18	17.39
	Multiple Choice		48.58	10.89	69.65	13.13	70.54	13.31
Chakwal	Constructed Response	24,105	29.90	21.14	47.12	18.42	50.11	18.22
	Multiple Choice		18.41	4.78	23.55	5.39	21.93	5.17
Chiniot	Constructed Response	9,652	38.01	23.92	47.27	20.46	59.46	19.32
	Multiple Choice		61.04	15.12	66.84	14.10	68.25	14.09
D.G.khan	Constructed Response	18,726	48.41	24.68	53.36	23.60	59.35	19.14
	Multiple Choice		29.98	5.82	25.95	4.65	32.37	6.74
Faisalabad	Constructed Response	16,779	45.10	26.08	39.24	21.24	50.09	19.16
	Multiple Choice		60.38	24.71	57.49	13.46	64.31	13.45
Gujranwala	Constructed Response	50,114	34.82	22.17	49.75	20.35	55.15	18.99
	Multiple Choice		58.84	17.34	64.75	14.81	61.83	15.06
Gujrat	Constructed Response	36,087	33.36	22.09	36.71	22.77	55.15	18.99
	Multiple Choice		53.62	13.85	59.71	13.11	61.83	15.06
Hafizabad	Constructed Response	12,378	34.36	17.63	21.67	19.14	40.27	18.77
	Multiple Choice		61.95	14.48	54.81	14.24	68.01	13.29
Jhelum	Constructed Response	18,459	18.99	17.74	35.76	22.96	42.09	20.36
	Multiple Choice		53.48	16.64	56.66	14.72	61.91	14.31
Jhang	Constructed Response	23,694	32.99	20.81	53.13	19.95	49.26	17.88
	Multiple Choice		66.37	13.67	72.94	14.14	76.86	12.97
Kasur	Constructed Response	30,737	30.10	20.34	42.76	21.97	52.08	21.05
	Multiple Choice		53.27	15.08	57.20	13.50	62.26	13.99
Khanewal	Constructed Response	24,311	28.84	18.91	38.69	20.97	50.00	19.40
	Multiple Choice		58.72	15.19	64.85	13.40	64.41	14.19
Khushab	Constructed Response	13,628	30.50	22.50	39.20	21.68	51.14	20.45
	Multiple Choice		57.32	14.62	56.85	14.53	63.68	13.46
Lahore	Constructed Response	1,04,661	39.68	23.44	41.94	21.86	55.38	18.61
	Multiple Choice		57.24	15.38	58.20	15.94	63.06	13.97
Layyah	Constructed Response	16,969	35.35	22.56	49.34	20.12	54.55	20.08
	Multiple Choice		61.28	15.49	64.85	13.69	61.50	14.16
Lodhran	Constructed Response	16,523	38.34	21.92	50.78	19.19	49.04	19.18
	Multiple Choice		66.28	16.13	63.20	18.54	73.98	12.50
MB Din	Constructed Response	11,504	37.36	21.92	51.70	18.09	48.15	18.70
	Multiple Choice		64.97	15.29	63.20	17.81	74.60	13.42
Mianwali	Constructed Response	20,077	29.18	19.36	34.15	18.38	50.25	17.62
	Multiple Choice		53.85	16.61	61.87	14.97	62.92	14.23

District		N	Science		Social Study		Urdu	
			M	SD	M	SD	M	SD
Multan	Constructed Response	16,448	30.95	21.55	42.45	21.68	49.97	20.66
	Multiple Choice		61.10	14.95	63.99	12.93	66.02	15.07
Muzafargarh	Constructed Response	29,551	61.28	20.35	67.79	17.73	65.82	17.50
	Multiple Choice		73.29	13.61	74.73	11.79	77.33	13.74
Nankana	Constructed Response	17,931	23.41	19.31	39.24	19.32	46.85	19.82
	Multiple Choice		55.20	15.20	59.70	13.79	56.83	13.89
Narowal	Constructed Response	26,594	25.52	21.49	39.25	23.83	45.27	23.26
	Multiple Choice		56.94	16.21	61.69	14.95	66.54	14.87
Okara	Constructed Response	26,899	30.14	21.66	35.61	20.58	50.90	18.97
	Multiple Choice		54.49	16.48	60.45	15.02	61.64	14.48
Pakpattan	Constructed Response	14,115	32.76	21.51	48.15	19.30	53.93	17.49
	Multiple Choice		58.10	14.16	60.51	13.35	66.36	12.38
R.Y.khan	Constructed Response	30,822	31.88	21.26	34.66	19.99	49.11	19.05
	Multiple Choice		59.85	15.41	63.27	16.02	67.00	13.82
Rajapur	Constructed Response	9,341	41.15	19.96	47.48	20.32	45.82	21.76
	Multiple Choice		19.12	5.18	27.39	6.54	17.41	4.81
Rawalpindi	Constructed Response	41,850	25.92	19.77	39.95	19.16	41.72	19.55
	Multiple Choice		20.18	5.91	24.00	5.92	18.88	5.30
Sahiwal	Constructed Response	25,241	30.15	20.95	46.11	23.85	56.76	24.80
	Multiple Choice		56.40	14.43	64.91	13.26	69.89	12.67
Sargodha	Constructed Response	38,245	37.47	20.02	50.95	18.11	55.81	18.64
	Multiple Choice		62.97	15.52	65.76	13.89	63.62	14.53
Sheikhpura	Constructed Response	30,172	32.23	20.78	41.04	22.12	52.03	19.70
	Multiple Choice		26.39	5.82	29.29	5.80	21.88	5.37
Sialkot	Constructed Response	52,123	31.44	20.46	38.69	18.98	49.93	18.93
	Multiple Choice		53.25	14.19	59.41	13.68	60.00	14.29
T.T.Singh	Constructed Response	25,172	36.93	21.09	41.98	20.97	57.42	18.70
	Multiple Choice		27.37	6.10	26.42	5.60	29.22	6.37
Vehari	Constructed Response	24,083	36.22	21.96	34.81	26.62	58.10	18.17
	Multiple Choice		30.04	6.27	63.91	19.61	29.44	6.32



Section IV: Comparisons of Test Versions

The examination conducted by Punjab Examination Commission is criterion based examination in which student performance is measured against the SLOs given in curriculum. For administrative reasons, six versions of each test paper were used in various districts. The assumption behind use of different version is the concept of parallel test based on drawing of items from same content areas in proportion described in table of specification. It is further assumed that items of comparable difficulty and discrimination will be included in parallel versions. Thus the parallel version of tests will be same in every respect except content of questions differ.

It is very important to put in place transparent and rigorous mechanisms to ensure the compliance to conditions discussed in above paragraph. Otherwise the comparability of students' performance across districts using different version of same tests becomes questionable and subsequent analysis of results is compromised.

This section of report analyzed the six versions used in Grade 8 examination in 2012 on two simple parameters of test difficulty¹ and test discrimination². Table 4.1 shows considerable variation in difficulty and discrimination of different version of tests used in examination.

Table 4.1

Comparison of test difficulty and discrimination by test versions for all subjects in grade 8 tests in 2012

Version #	Urdu		English		Math		Science		Islamiat		Social Studies	
	Diff.	Disc.	Diff.	Disc.	Diff.	Disc.	Diff.	Disc.	Diff.	Disc.	Diff.	Disc.
Version 1	0.48	0.53	0.47	0.49	0.47	0.39	0.62	0.45	0.49	0.58	0.65	0.41
Version 2	0.65	0.23	0.59	0.35	0.60	0.31	0.62	0.28	0.72	0.24	0.59	0.23
Version 3	0.66	0.26	0.67	0.36	0.59	0.31	0.58	0.27	0.59	0.84	0.65	0.33
Version 4	0.53	0.33	0.52	0.36	0.50	0.30	0.44	0.34	0.58	0.43	0.49	0.35
Version 5	0.61	0.25	0.66	0.39	0.59	0.30	0.60	0.28	0.74	0.21	0.64	0.23
Version 6	0.45	0.46	0.51	0.40	0.43	0.32	0.46	0.37	0.49	0.46	0.41	0.31

This explicitly means that variation in student performance can be caused by the test version they happen to receive. The measurement error caused by test version needs to be eliminated before performing any analysis on scores thus awarded. The

¹ Test difficulty is calculated using average of item difficulty of all MCQs in each version of the subject test. CONQUEST was used to find item difficulty (threshold value) and then average of item difficulty of all items in a test was worked out using EXCEL.

² Test discrimination is calculated using average of item discrimination of all MCQs in each version of the subject test. CONQUEST was used to find discrimination power of each item and then average of item discrimination power of all items in a test was worked out using EXCEL. It is worth mentioning that CONQUEST used the method suggested in Classical Test Theory (CTT) for finding the item discrimination power.

values presented in red color and bold in table 4.1 shows the most difficult tests among the available versions while the values in green color and bold shows the easiest version among the six version of the test. There is variation of up to 0.25 (in Islamiat) percent between versions means scores of the students are varied because of the difference in the extent of difficulty in tests rather than their knowledge of subject.

Figure 4.1 shows the list of districts versus the version of test administered to the students. Table 4.1 shows that version 6 of the test was most difficult in all subjects except English and Science. The ranking of districts in which this version was administered is Mandi Bahauddin (M=320.2)(33rd), Okara (M=320.9) (31st), Chakwal (M=323.4) (27th), Sheikhupura (M=337.8) (22nd), Bahawalnagar (M=375.5) (6th) and Multan (M=378.1) (5th). It is probable that their ranking may have changed if some other version of the test would have been administered to the students. (for details see table 3.1 & annexure 4)

Version 1	Hafizabad Jhang Lodhran Pakpattan Rajanpur Rawalpindi	Version 2	Faisalabad Jhelum Kasur Mianwali Narowal Sahiwal	Version 3	Bhakkar Chiniot Gujrat Khanewal Muzaffargarh Sialkot
Version 4	D G Khan Khushab Lahore Rahim Yar Khan Toba Tek Singh Vehari	Version 5	Attock Bahawalpur Layyah Gujranwala Nankana Sahib Sargodha	Version 6	Bahawalnagar Chakwal Mandi Bahauddin Multan Okara Sheikhupura

Figure 4.1: List of districts with reference to test version administered

4.1. Comparison of Test Difficulty across Six Versions

Figure 4.2 shows the comparative variation in difficulty level of test versions in all six subjects. The difficulty ranges between 0.45 to 0.66 for Urdu and 0.49 to 0.74 for Islamiyat. The variation in difficulty of tests version in English, Mathematics and Islamiyat are of interest while comparing the student performance across district. The test version was apparently as source of variation and might have generated measurement error worth considering.

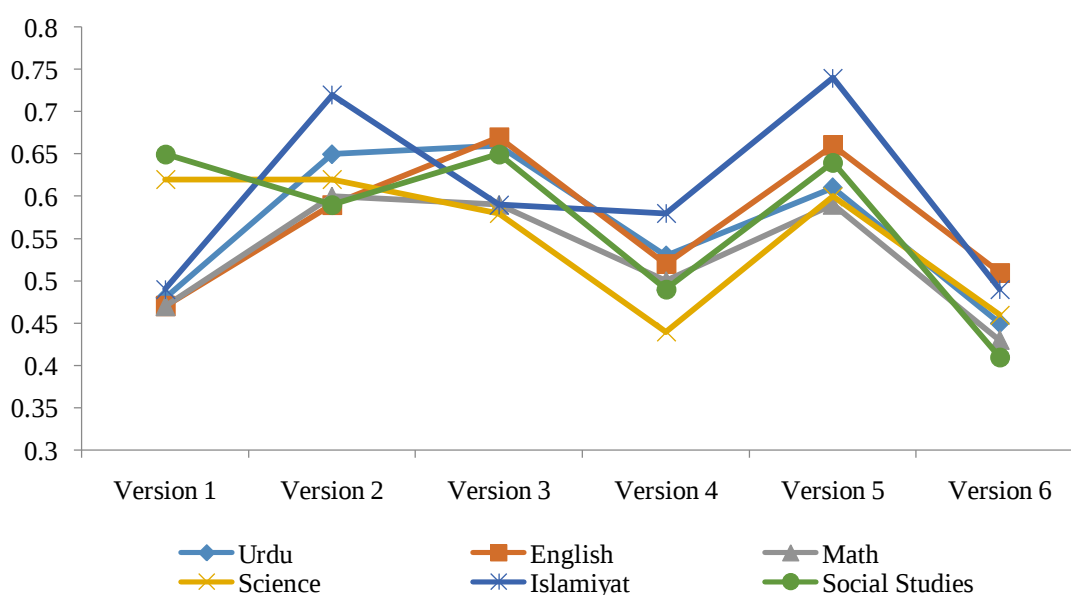


Figure 4.2: Comparison of test difficulty¹ across test versions

4.2. Comparison of Discrimination Power of Tests across Six Versions

Discrimination is the property of test by which it helps us in differentiating in high and low performing students. It is generally observed that difficult test have higher discrimination power. Figure 4.3 corresponds to this assumption if seen alongside Figure 4.2. Version 6 was the most difficult of the tests used in the examination 2012 and had the highest discrimination power in all subject science as science test was almost equally difficult in all versions.

¹The value of test difficulty range between 0-1. The test is easier if the value of difficulty gets close to 1 and test is difficult if the value of difficulty is closer to 0.

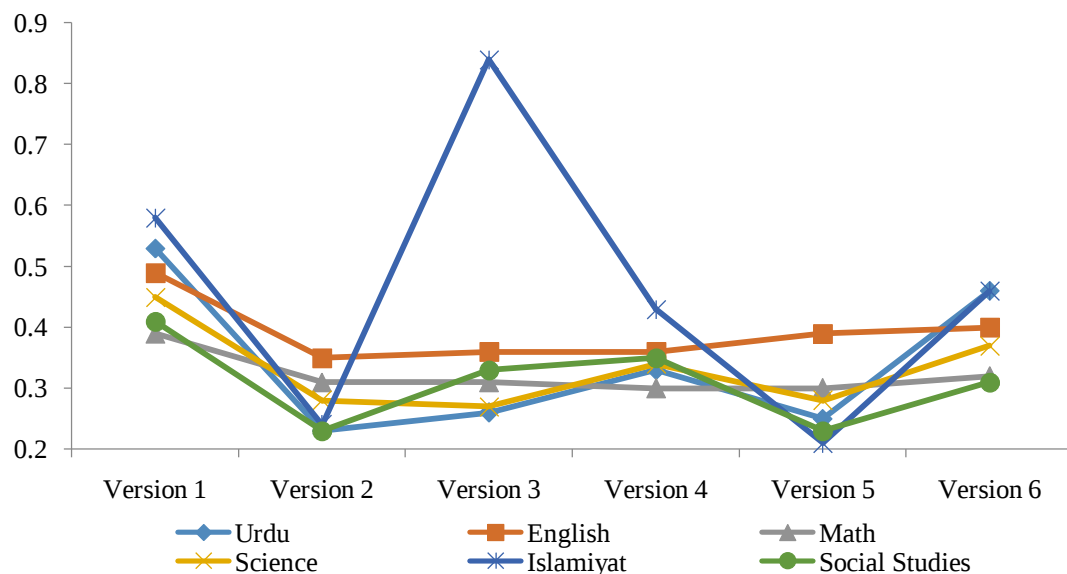


Figure 4.3: Comparison of test discrimination¹ across test versions

The discrimination values above 0.40 are usually discouraged because it leaves large number of test questions less probable to be correctly answered by the students of average or below average ability which is contrary to the test development principles in criterion referenced tests. Criterion referenced tests are preferable constructed on the theory of almost equal number of easy, moderate and difficult questions.

¹ The value of discrimination remains between ± 1 . The item with negative value are excluded from the test at piloting phase. There happened to be no such item in any of the version of test used in 2013. The higher value of discrimination means higher discrimination power of the test.

**Section V: Result Patterns by
Examination Centers**

Table 5.1a

Center wise Analysis of District Dera Ghazi Khan

District	Tehsil	Centers	Total Score			ENG			ISL			MATH		
			N	M	SD	N	M	SD	N	M	SD	N	M	SD
D.G Khan	D.G Khan	GOVT. G/H/S CENTRAL MODEL D.G.KHAN	225	462.79	25.93	225	74.61	7.5	225	86.35	4.52	225	67.71	9.68
		D.P.S D.G.KHAN	303	450.14	46.98	303	82.91	9.33	303	83.92	8.7	303	72.08	12.65
		GOVT. H/S/S SHAH SADAR DIN SUB CENTRE-1	243	430.6	31.76	243	71.51	7.32	243	84.01	6.35	243	55.07	11.76
		GOVT. BOYS ELEMENTARY COLLEGE SUB CENTRE-2	296	429.99	39.04	296	64.05	13.1	296	81.41	6.3	296	65.22	13.55
		GOVT. G/H/S MULAQAID SHAH	300	429.11	48.41	300	65.93	14.82	300	83.99	6.01	300	69.54	15.14
		GOVT. BOYS ELEMENTARY COLLEGE SUB CENTRE-1	231	428.79	33.03	231	69.97	11.42	231	81.11	4.77	231	70.81	11.42
		GOVT. G/H/S RAILWAY COLONY	122	428.2	39.46	122	73.87	8.99	122	81.16	5.33	122	63.46	15.92
		GOVT. H/S/S SHADAN LUND SUB CENTRE-2	206	427.12	55.66	206	77.48	8.58	206	84.33	6.73	206	60.41	20.16
		GOVT. H/S PIR ADIL SUB CENTER-2	160	424.19	33.01	160	72.66	8.32	160	76.86	6.95	160	56.34	13.37
		GOVT. H/S JHOKE UTTRA SUB CENTER-2	170	423.81	29	170	78.16	7.38	170	86.28	5.69	170	57.79	10.32
		GOVT. H/S LOHAR WALA	146	422.83	31.58	146	60.75	11.03	146	84.14	5.45	146	61.15	7.33
		GOVT. CITY HIGH SCHOOL SUB CENTER-1	316	418.21	36.24	316	64.7	12.93	316	83.9	8.18	316	65.85	15.68
		GOVT. H/S MIAN PHAIROO	157	417.13	30.82	157	67.45	9.42	157	81.26	6.33	157	63.62	10.25
		GOVT. G/H/S MANA AHMADANI	169	412.4	32.64	169	77.84	6.77	169	80.72	6.96	169	62.87	10.93
		GOVT. H/S KALA SUB CENTER-2	161	409.16	65.62	161	69.77	10.59	161	85.27	8.4	161	58.99	19.33
		GOVT.G/H/S/S CITY D.G.KHAN	262	408.94	48.11	262	81.85	9.85	262	77.02	9.24	262	61.54	16.32
		GOVT. G/H/S/S CITY D.G.KHAN	254	408.44	32.41	254	67.27	8.57	254	80.71	6.74	254	61.33	12.66
		GOVT. H/S KHAR RAKHI GARG (TRIBAL AREA)	72	407.26	29.07	72	58.11	10.78	72	74.64	5.81	72	60.88	10.44
		GOVT. H/S KALA SUB CENTER-I	254	406.47	29.07	254	72.78	7.16	254	87.01	6.85	254	42.12	14.36
		GOVT. H/S/S KOT CHUTTA SUB CENTRE-2	227	406.06	32.72	227	67.19	9.92	227	82.89	6.47	227	48.8	13.27
		GOVT. H/S/S KOT MUBARAK SUB CENTRE-I	190	405.79	41.65	190	71.35	8.26	190	78.09	6.51	190	39.41	20.16
		GOVT. H/S/S SHAH SADAR DIN SUB CENTRE-2	215	405.65	29.71	215	62.9	9.76	215	79.26	4.43	215	46.35	13.26
		GOVT. G/H/S NO.1 D.G.KHAN	326	400.71	24.68	326	61.88	6.13	326	85.82	5.53	326	53.43	8.78
		GOVT. H/S/S SHADAN LUND SUB CENTRE-1	243	399.29	34.41	243	77.28	5.74	243	75.33	7.1	243	48.86	14.06
		GOVT. H/S KHAYABAN-E-SARWAR	160	398.23	39.83	160	64.08	7.45	160	85.66	6.75	160	53.58	12.79
		GOVT. H/S SAMINA	323	397.03	30.75	323	69.74	7.54	323	79.83	6.97	323	45.56	15.01
		GOVT. H/S SHAHDAD TALPUR	276	396.44	43.12	276	65.63	10.62	276	79.06	7.53	276	60.73	12.65
		GOVT. H/S NO.1 D.G.KHAN SUB CENTRE-3(MC/C CITY No.	191	390.06	44.31	191	65.83	11.84	191	80.55	9.03	191	57.51	12.53
		GOVT. G/H/S MULLA QUAID SHAH (JADEED)	212	389.61	42.77	212	66.4	10.58	212	77.29	5.79	212	47.53	11.73
		GOVT. H/S GADDAI	279	388.54	62.55	279	56.09	16.96	279	78.41	8.94	279	58.06	16.16
		GOVT. G/H/S GADDAI	213	386.1	56.84	213	50.28	17.17	213	78.85	8.89	213	56.44	15.92
		GOVT. H/S S MANA AHMDANI SUB CENTRE-2	209	384.82	39.29	209	55.42	10.79	209	80.34	7.01	209	58.51	15.52
		GOVT. H/S/S KOT MUBARAK SUB CENTRE-2	186	384.52	38.77	186	56.87	13.15	186	73.45	4.31	186	39.66	19.74
		GOVT. H/S S MANA AHMDANI SUB CENTRE-1	219	384.21	49.08	219	60.53	12.11	219	75.61	8.85	219	50.34	19.51

		GOVT. H/S/S KOT CHUTTA SUB CENTRE-1	273	383.96	55.31	273	58.25	15.37	273	80.21	7.42	273	55.74	18.03
		GOVT. H/S ARA JAFAR	269	381.2	34.62	269	73.54	7.5	269	77.72	6	269	60.97	13.53
		GOVT. G/H/S SHAH SADAR DIN	124	380.94	28.49	124	64.58	7.39	124	77.42	5.68	124	44.71	9.23
		GOVT. H/S JHOKE UTTRA SUB CENTER-I	195	376.88	28.28	195	61.44	7.79	195	78.54	6.34	195	55.56	7.73
		GOVT. H/S/S SAKHI SARWAR	194	372.5	45.25	194	55.08	9.56	194	75.99	9.07	194	51.39	15.06
		GOVT. H/S GHOU S ABAD	189	369.65	31.01	189	59.64	9.74	189	79.56	6.29	189	49.91	11.68
		GOVT. H/S CHOTTI ZAREEN SUB CENTRE-2	300	364.55	70.7	300	52.08	15.7	300	78.28	9.72	300	51.25	19.44
		GOVT. H/S AALI WALA	256	359.1	43.18	256	39.73	12.98	256	82.52	7.48	256	48.81	13.83
		GOVT. CITY HIGH SCHOOL(LAB), DG KHAN SUB CENTER-2	224	354.67	55.61	224	51.9	13.99	224	80.5	9.47	224	51.75	15.71
		PAK ASKARIA D.G.KHAN	165	348.12	55.38	165	59.64	12.62	165	78.64	7.8	165	53.38	13.12
		GOVT. H/S NO.1 D.G.KHAN SUB CENTRE-1	277	341.67	58.56	277	58.1	15.97	277	78.05	9.66	277	45.64	16.36
		GOVT. H/S BADOWANI	137	340.3	53.84	137	52.26	13.57	137	75.51	9.55	137	44.29	13.78
		GOVT. G/H/S CHOTTI ZAREEN	177	340.29	43.45	177	66.4	8.38	177	79.03	8.53	177	32.9	14.84
		GOVT. H/S KHAN PUR	261	339.54	37.23	261	51.84	9.64	261	77.1	7.01	261	45.84	14.04
		GOVT. H/S PIR ADIL SUB CENTER-1	187	337.74	53.37	187	57.4	18.39	187	79.13	8.12	187	37.72	12.83
		GOVT. G/H/S/S KOT CHUTTA	166	333.7	36.58	166	43.46	8.07	166	72.94	6.09	166	41.48	15.86
		GOVT. H/S WALAY WALA	264	329.98	54.36	264	45.33	14.61	264	69.94	7.23	264	51.35	14.87
		GOVT. H/S NO.1 D.G.KHAN SUB CENTRE-2	278	326.47	42.26	278	38.75	15.06	278	76.7	7.94	278	46.74	12.56
		GOVT. H/S CHOTTI ZAREEN SUB CENTRE-1	318	311.03	49.82	318	54.69	9.72	318	66.66	9.53	318	33.61	17.52
		GOVT. H/S PAIGAH	262	302.1	45.98	262	42.14	17.2	262	75.25	7.31	262	37.13	12.81
		GOVT. H/S JAMIA SUB CENTRE-1	259	295.79	54.22	259	42.34	15.28	259	75.51	9.78	259	37.1	17.68
		GOVT. H/S JAMIA SUB CENTRE-2	233	290.67	53.48	233	50.53	14.59	233	70.95	9.84	233	29.64	13.48
		GOVT. H/S SARWAR WALI	297	269.19	54.63	297	46.02	13	297	63.29	9.94	297	33.63	13.1
	Taunsa	GOVT. H/S NUTKANI	233	461.84	25.48	233	74.77	7.22	233	86.53	3.66	233	72.4	9.55
		GOVT. H/S KOT QAISRANI	299	457.34	38.99	299	80.89	6.37	299	87.49	7.42	299	72.22	12.89
		GOVT. H/S/S TIBBI QAISRANI SUB CENTRE-2	245	452.78	27.63	245	73.9	7.86	245	85.03	5.77	245	75.07	7.84
		GOVT. G/H/S/S NUTKANI	124	452.39	20.13	124	66.27	7.32	124	92.23	4.53	124	75.29	5.16
		GOVT. H/S VEHOVA SUB CENTRE-2	248	446.66	34.9	248	64.41	11.14	248	85.71	4.79	248	78.42	8.09
		GOVT. G/H/S/S TAUNSA SUB CENTRE-2	214	446.1	32.98	214	59.88	11.49	214	90.88	5.49	214	72.15	8.92
		GOVT. H/S RETRA SUB CENTRE-2	275	444.04	46.92	275	68.59	13.25	275	81.32	6.97	275	64.81	13.43
		GOVT. H/S VEHOVA SUB CENTRE-1	286	443.73	37.61	286	71.18	9.46	286	84.25	4.51	286	72.11	13.45
		GOVT. H/S/S TIBBI QAISRANI SUB CENTRE-1	239	443.71	34.88	239	84.13	8.56	239	79.95	5.2	239	60.87	10.62
		GOVT. H/S RETRA SUB CENTRE-1	258	439.43	29.54	258	78.83	8.38	258	79.95	3.9	258	65.24	10.54
		GOVT. H/S KOHAR	156	437.03	32.65	156	73.47	6.49	156	87.97	5.67	156	62.22	8.54
		GOVT. H/S BARTHI(TRIBAL AREA)(TRIBAL AREA)	185	434.15	25.99	185	69.81	7.79	185	71.09	4.09	185	77.68	7.35
		GOVT. H/S MANGROTHA SHARQI	296	431.38	28.43	296	73.49	10.47	296	82.74	6.75	296	68.1	11.19
		GOVT. G/H/S KOT QAISRANI	214	429.82	39.34	214	69.07	13.18	214	81.36	5.67	214	71.11	13.35
		GOVT. G/H/S/S TAUNSA SUB CENTRE-1	219	429.23	44.59	219	72.96	5.38	219	81.53	11.46	219	61.01	18.52
		GOVT. G/H/S/S VEHOVA	250	428.45	28.51	250	70.48	9.07	250	83.13	4.86	250	64.54	9.34
		GOVT.H/S CITY,TAUNSA	279	422.47	68.83	279	72.76	16.88	279	87.68	7.25	279	56.21	20.56

	GOVT. H/S TAUNSA SUB CENTRE-2	292	416.82	35.98	292	72.44	9.11	292	86.84	5.4	292	63.89	12.01
	GOVT. H/S SOKAR	305	414.5	37.43	305	62.56	11.39	305	73.31	10.51	305	71	11.32
	GOVT. H/S BASTI BUZDAR	153	412.22	27.84	153	76.98	5.69	153	82.89	4.12	153	54.95	10.64
	GOVT. H/S FAZLA KACH(TRIBAL AREA)	210	410.06	30.25	210	70.64	7.95	210	78.87	4.82	210	68.44	8.48
	GOVT. H/S TAUNSA SUB CENTRE-1	289	378.89	57.05	289	57.17	13.82	289	81.47	9.04	289	50.44	15.8
	GOVT. H/S BHAMBHAN	131	371.79	40.77	131	69.73	8.23	131	73.59	7.57	131	42.29	13.31
	GOVT. H/S DOUNA	167	362.08	34.25	167	53.74	10.03	167	78.45	5.29	167	57.84	12.01
	GOVT. H/S HAIRO SHARQI	228	335.93	45.51	228	71.59	7.88	228	64.46	8.59	228	44.55	15.52
	GOVT. H/S MAKWAL	224	335.29	41.87	224	44.83	15.29	224	78.98	7.26	224	45.61	11.97

Table 5.1b

Center wise Analysis of District Dera Ghazi Khan

District	Tehsil	Centers	SCI			SOC			URDU		
			N	M	SD	N	M	SD	N	M	SD
D.G Khan	D.G Khan	GOVT. G/H/S CENTRAL MODEL D.G.KHAN	225	75.18	8.74	225	79.29	3.7	225	79.65	4.86
		D.P.S D.G.KHAN	296	73.13	8.1	296	77.46	11.35	296	68.73	11.87
		GOVT. H/S/S SHAH SADAR DIN SUB CENTRE-1	160	73.12	8.38	160	76.8	7.78	160	68.41	8.12
		GOVT. BOYS ELEMENTARY COLLEGE SUB CENTRE-2	190	72.74	6.6	190	70.41	8.34	190	73.79	6.26
		GOVT. G/H/S MULAQAID SHAH	186	72.56	8.13	186	72.82	9.34	186	69.16	8.82
		GOVT. BOYS ELEMENTARY COLLEGE SUB CENTRE-1	303	69.72	13.45	303	73.18	10.29	303	68.32	7.37
		GOVT. G/H/S RAILWAY COLONY	215	69.5	8.36	215	78.13	6.41	215	69.52	7.42
		GOVT. H/S/S SHADAN LUND SUB CENTRE-2	194	69.08	12.37	194	44.54	8.92	194	76.42	10.09
		GOVT. H/S PIR ADIL SUB CENTER-2	300	69.04	8.67	300	68.48	9.51	300	72.12	7.41
		GOVT. H/S JHOKE UTTRA SUB CENTER-2	279	69.01	14.66	279	64.32	11.23	279	62.64	14.46
		GOVT. H/S LOHAR WALA	273	68.8	9.8	273	59.96	10.81	273	61.01	10.44
		GOVT. CITY HIGH SCHOOL SUB CENTER-I	157	68.52	7.1	157	68.33	7.47	157	67.95	7.32
		GOVT. H/S MIAN PHAIROO	316	68.03	4.95	316	65.24	10.33	316	70.49	6.96
		GOVT. G/H/S MANA AHMADANI	254	68.02	10.53	254	66.05	6.61	254	65.06	9.89
		GOVT. H/S KALA SUB CENTER-2	212	67.66	10.44	212	62.73	11.15	212	68.01	11.62
		GOVT.G/H/S/S CITY D.G.KHAN	227	67.41	8.86	227	71.33	6.96	227	68.44	8.01
		GOVT. G/H/S/S CITY D.G.KHAN	231	67.1	7.54	231	72.89	7.48	231	66.93	10.03
		GOVT. H/S KHAR RAKHI GARG (TRIBAL AREA)	254	66.99	5.9	254	58.44	6.14	254	79.12	7.08
		GOVT. H/S KALA SUB CENTER-I	72	66.89	8.52	72	84.79	6.04	72	61.96	8.52
		GOVT. H/S/S KOT CHUTTA SUB CENTRE-2	206	66.49	9.88	206	72.78	9.99	206	65.63	12.05
		GOVT. H/S/S KOT MUBARAK SUB CENTRE-I	146	66.09	10.09	146	77.38	5.33	146	73.33	7.96
		GOVT. H/S/S SHAH SADAR DIN SUB CENTRE-2	170	63.7	7.4	170	61.53	9.03	170	76.36	6.66
		GOVT. G/H/S NO.1 D.G.KHAN	213	63.59	9.67	213	69.28	8.94	213	67.67	13.54

		GOVT. H/S/S SHADAN LUND SUB CENTRE-1	122	63.57	6.05	122	73.84	7.9	122	72.31	7.02
		GOVT. H/S KHAYABAN-E-SARWAR	161	63.48	15.55	161	61.8	15.28	161	69.86	11.45
		GOVT. H/S SAMINA	219	62.8	8.49	219	66.22	9.59	219	68.7	10.39
		GOVT. H/S SHAHDAD TALPUR	209	61.89	10.75	209	65.54	7.16	209	63.11	9.89
		GOVT. H/S NO.1 D.G.KHAN SUB CENTRE-3(MC/C CITY No.	264	61.36	11.2	264	45.56	13.09	264	56.45	11.76
		GOVT. G/H/S MULLA QUAID SHAH (JADEED)	189	60.6	6.5	189	59.97	6.91	189	59.97	7.59
		GOVT. H/S GADDAI	276	59.97	9.71	276	67.47	8.93	276	63.58	9.96
		GOVT. G/H/S GADDAI	243	59.8	9.04	243	85.38	6.47	243	74.83	8.2
		GOVT. H/S S MANA AHMDANI SUB CENTRE-2	323	59.46	8.87	323	75.57	9.3	323	66.88	6.37
		GOVT. H/S/S KOT MUBARAK SUB CENTRE-2	169	59.08	9.73	169	60.36	6.64	169	71.52	7.33
		GOVT. H/S S MANA AHMDANI SUB CENTRE-1	160	58.84	12.16	160	59.02	9.31	160	77.06	5.86
		GOVT. H/S/S KOT CHUTTA SUB CENTRE-1	243	58.42	12.93	243	66.4	10.9	243	73	8.72
		GOVT. H/S ARA JAFAR	195	57.86	7.58	195	56.07	8.62	195	67.42	6.61
		GOVT. G/H/S SHAH SADAR DIN	262	57.06	12.24	262	68.8	11.3	262	62.66	13.2
		GOVT. H/S JHOKE UTTRA SUB CENTER-I	261	56.48	8.73	261	55.23	7.77	261	53.05	9.03
		GOVT. H/S/S SAKHI SARWAR	256	55.74	12.93	256	75.46	8.7	256	56.85	12.68
		GOVT. H/S GHOUS ABAD	187	54.56	9.2	187	53.22	13.47	187	55.71	9.75
		GOVT. H/S CHOTTI ZAREEN SUB CENTRE-2	166	53.34	9.22	166	55.3	8.78	166	67.2	7.09
		GOVT. H/S AALI WALA	124	52.6	7.23	124	65.76	6.97	124	75.86	6.9
		GOVT. CITY HIGH SCHOOL(LAB), DG KHAN SUB CENTER-2	326	51.89	10.03	326	66.25	6.17	326	81.44	6.59
		PAK ASKARIA D.G.KHAN	300	51.24	16.66	300	65.24	10.75	300	66.45	14.82
		GOVT. H/S NO.1 D.G.KHAN SUB CENTRE-1	137	51.19	11.08	137	60.26	11.29	137	56.79	11.63
		GOVT. H/S BANDOWANI	278	49.97	13.09	278	54.39	9.31	278	59.92	12.54
		GOVT. G/H/S CHOTTI ZAREEN	277	49.73	18.15	277	50.59	12	277	59.56	11.8
		GOVT. H/S KHAN PUR	191	49.23	13.1	191	70.66	6.9	191	66.28	10.28
		GOVT. H/S PIR ADIL SUB CENTER-1	269	47.91	9.64	269	58.06	10.52	269	62.99	10.07
		GOVT. G/H/S/S KOT CHUTTA	224	47.09	12.17	224	59.82	11.89	224	63.6	10.19
		GOVT. H/S WALAY WALA	177	46.48	12.7	177	54.51	11.4	177	60.97	8.81
		GOVT. H/S NO.1 D.G.KHAN SUB CENTRE-2	165	43.35	15.76	165	54.6	11.68	165	58.52	11.22
		GOVT. H/S CHOTTI ZAREEN SUB CENTRE-1	318	43.32	13.34	318	60.78	13.37	318	51.97	11.42
		GOVT. H/S PAIGAH	262	41.71	10.65	262	55.73	12.27	262	50.14	11.1
		GOVT. H/S JAMIA SUB CENTRE-1	259	39.5	13.51	259	48.17	15.58	259	53.16	13.19
		GOVT. H/S JAMIA SUB CENTRE-2	233	38.89	15.83	233	47.81	14.91	233	52.84	11.97
		GOVT. H/S SARWAR WALI	297	35.72	15.22	297	38.98	13.39	297	51.54	10.7
	Taunsa	GOVT. G/H/S/S NUTKANI	124	75.80	7.46	233	72.45	6.26	233	85.41	3.49
		GOVT. H/S RETRA SUB CENTRE-2	275	73.25	10.56	299	68.98	9.99	299	78.32	6.27
		GOVT. H/S KOHAR	156	72.55	6.39	245	75.77	6.51	245	75.13	6.93
		GOVT. H/S NUTKANI	233	70.27	3.93	124	76.77	4.58	124	66.03	4.03
		GOVT. H/S MANGROTHA SHARQI	296	69.94	8.05	248	74.06	7.90	248	75.36	7.56
		GOVT. G/H/S/S TAUNSA SUB CENTRE-2	214	69.74	7.28	214	68.65	8.64	214	84.80	5.97

		GOVT. H/S VEHOVA SUB CENTRE-1	286	69.68	7.33	275	79.35	6.99	275	76.72	10.65
		GOVT. H/S KOT QAISRANI	299	69.44	9.18	286	74.89	7.87	286	71.62	6.65
		GOVT. H/S RETRA SUB CENTRE-1	258	68.77	11.20	239	71.93	8.17	239	79.90	7.72
		GOVT. H/S VEHOVA SUB CENTRE-2	248	68.71	8.81	258	68.16	7.35	258	78.48	5.78
		GOVT. H/S/S TIBBI QAISRANI SUB CENTRE-2	245	67.89	10.30	156	69.31	5.45	156	71.51	6.28
		GOVT. H/S/S TIBBI QAISRANI SUB CENTRE-1	239	66.92	9.55	185	78.71	5.81	185	72.39	7.36
		GOVT. H/S BARTHI(TRIBAL AREA)(TRIBAL AREA)	185	64.48	8.91	296	68.15	6.27	296	68.96	8.15
		GOVT. G/H/S/S TAUNSA SUB CENTRE-1	219	64.44	8.69	214	74.16	7.41	214	75.48	6.10
		GOVT. H/S BASTI BUZDAR	153	64.31	9.77	219	70.26	6.98	219	79.03	7.29
		GOVT. G/H/S/S VEHOVA	250	63.64	8.23	250	71.74	5.31	250	74.92	7.02
		GOVT. H/S SOKAR	305	63.59	15.99	279	68.58	11.65	279	73.78	10.10
		GOVT.H/S CITY,TAUNSA	279	63.46	8.93	292	67.97	9.31	292	71.90	8.78
		GOVT. H/S FAZLA KACH(TRIBAL AREA)	210	60.05	10.65	305	63.35	9.70	305	80.70	5.87
		GOVT. H/S BHAMBHAN	131	59.60	8.07	153	66.55	6.27	153	66.55	4.52
		GOVT. G/H/S KOT QAISRANI	214	58.64	10.20	210	66.65	9.73	210	65.42	7.52
		GOVT. H/S TAUNSA SUB CENTRE-2	292	53.77	13.43	289	62.53	10.65	289	75.94	9.27
		GOVT. H/S DOUNA	167	52.81	8.14	131	64.89	10.98	131	61.70	10.29
		GOVT. H/S TAUNSA SUB CENTRE-1	289	51.32	9.63	167	55.92	10.54	167	63.32	10.35
		GOVT. H/S MAKWAL	224	49.22	9.86	228	57.01	12.74	228	49.93	13.45
		GOVT. H/S HAIRO SHARQI	228	48.39	9.44	224	57.50	10.15	224	59.16	8.92

Table 5.2a

Center wise Analysis of District Jhang

District	Tehsil	Centers	Total Score			ENG			ISL			MATH		
			N	M	SD	N	M	SD	N	M	SD	N	M	SD
Jhang	Ahmedpur Sial	DISTRICT JAIL JHANG	7	457	21.39	7	82.43	6.5	7	85.14	1.21	7	58.43	14.25
		GES MUD RAJBANA A.P SIAL	162	445.59	25.37	162	79.08	5.45	162	82.16	4.33	162	70.58	7
		GES MAKORIAN WALA A.P SIAL	195	433.6	38.36	195	78.9	9.11	195	78.51	6.78	195	64.51	10.65
		GES 6/3 L A.P SIAL	125	433.22	48.39	125	70.9	10.26	125	77.08	7.48	125	71.36	10.47
		GES DAULOANA A.PSIAL	138	422.78	28.22	138	74.28	9.13	138	78.67	5.12	138	74.7	7.15
		GES DAGREE SHARQI A.P SIAL	181	415.01	43.68	181	72.86	15.05	181	81.02	5.65	181	67.81	9.73
		GHSS HASU BALAIL A.P SIAL	106	414.83	33.78	106	72.77	9.7	106	81.81	6.18	106	66.72	12.16
		GHS DULL A.P SIAL	131	395.39	36.04	131	66.52	12.24	131	78	7.12	131	56.97	10.74
		GHS ISA WALA A.P SIAL	164	394.99	36.89	164	69.39	6.55	164	73.2	7.07	164	68.74	11.87
		GHS SAMANDOANA A.P SIAL	101	391.9	24.55	101	64.42	9.05	101	76.73	7.04	101	69.6	8.43
		GHSS GM RAJA A.P SIAL (A)	160	389.83	37.33	160	67.05	9.5	160	76.64	6.21	160	56.93	9.14
		GHS PIR ABDUL REHMAN A.P SIAL	155	387.21	36.21	155	85.42	7.2	155	73.72	10.35	155	59.61	9.85

		GHS GILKALA A.P SIAL	107	385.08	32.43	107	64.39	9.09	107	81.95	4.55	107	52.36	10.47
		GHS NEKOKARA A.P SIAL	82	379.43	35.95	82	77.94	10.6	82	72.12	8.68	82	58.29	12.71
		GES KOT BAHADAR SHAH A.P SIAL	253	377.74	48.07	253	83.43	10.51	253	74.17	6.42	253	53.11	11.96
		GHS SULTAN BAHOO A.P SIAL	110	374.73	34.75	110	71.61	8.28	110	80.3	6.8	110	55.75	9.38
		GHS GUDDARA A.P SIAL	157	371.22	31.74	157	65.59	8.6	157	71.88	6.53	157	53.17	9.6
		GHS GARH MORE A.P SIAL	154	345.4	60.6	154	55.12	13.34	154	76.47	8.57	154	49.75	14.69
		GGHS GM RAJA A.P SIAL	166	344.01	63.1	166	62.9	12.27	166	75.8	8.43	166	41.36	12.33
		GHS A.P SIAL (B)	183	333.52	65.98	183	48.11	17.61	183	72	8.6	183	45.26	13.74
		GHS A.P SIAL (A)	201	329.52	42.52	201	57.99	11.89	201	70.73	8.25	201	42.81	12.84
	Jhang	GHS CHAK NO. 263/JB JHANG (A)	207	456.47	26.05	207	80.35	6.01	207	78.71	6.68	207	79.52	7.7
		CHENAB COLLEGE CHINIOT ROAD JHANG	209	447.76	53.47	209	74.76	13.23	209	87.47	6.39	209	70.16	12.98
		GGHS S/TOWN JHANG (A)	183	437.32	48.55	183	63.9	14.65	183	88.39	5.69	183	66.48	11.91
		GHS HUSSAINIA JHANG (B)	248	436.8	48.51	248	72.02	13.07	248	84.18	5.67	248	62.44	16.84
		GHS LONG SHUMALI JHANG (A)	341	431.47	31.99	341	77.75	5.24	341	80.97	5.24	341	77.61	7.4
		GGHS BASHIR JHANG (A)	266	430.6	48.28	266	69.91	16.38	266	83.76	5.91	266	61.57	13.44
		GHS JHANG CITY JHANG (A)	277	430.3	31.57	277	74.84	7.66	277	78.03	5.87	277	66.22	13.94
		GHS PIR KOT SADHANA JHANG (A)	236	430.14	29.3	236	76.81	8.94	236	78.01	5.47	236	75.24	8.59
		GHS KHANUANA JHANG	230	429.07	33.07	230	69.77	9.87	230	80.16	6.35	230	69.59	9.39
		GHS KOT ESSA SHAH JHANG (A)	278	428.52	27.13	278	75	6.85	278	74.36	6.88	278	76.53	6.96
		GGHS BASHIR JHANG (B)	242	425.01	38.62	242	75.65	10.42	242	82.37	5.45	242	60.55	9.34
		GGES MOH. SULTAN WALA JHANG	298	424.8	47.38	298	78.11	9.19	298	82.15	8.16	298	56.56	13.04
		GHS CHAK NO. 170/JB JHANG	182	422.8	38.51	182	74.13	10.21	182	72.41	7.74	182	65.53	10.92
		GHS SALYANA JHANG (A)	163	422.35	46.23	163	77.16	9.46	163	77.07	7.26	163	72.74	10.33
		GHS MUKHIANA JHANG	142	421.93	35.55	142	69.31	9.44	142	72.15	7.3	142	69.83	9.07
		GES 18-HAZARI JHANG (A)	310	418.61	47.8	310	75.28	11.73	310	77.37	8.07	310	70.21	10.11
		GHS SHAH JEWNA CITY JHANG (A)	344	418.16	34.82	344	76.1	10.82	344	78.93	5.61	344	58.85	9.91
		GGHS MANDI SHAH JEWNA JHANG	205	416.78	42.99	205	71.96	9.02	205	81.77	6.67	205	54.47	11.75
		GES S/TOWN JHANG (A)	319	415.55	48.26	319	58.62	14	319	82	6.76	319	64.5	14.08
		GGHS RODU SULTAN JHANG (A)	202	412.99	28.3	202	71.68	7.41	202	84.34	4.56	202	55.93	13.29
		GGES MOH. KAPAYAN JHANG	208	412.53	44.81	208	73.18	11.24	208	76.96	7.01	208	57.23	9.18
		GHS HUSSAINIA JHANG (A)	266	410.02	61.88	266	70.83	17.31	266	78.66	7.76	266	65.58	17.92
		GGHS WASU ASTANA JHANG	194	408.1	53.41	194	73.82	10.9	194	79.11	6.74	194	59.74	16.48
		GHS LASHARI JHANG	199	407.7	36.36	199	81.91	8.42	199	75.25	6.18	199	62.23	9.19
		GHS ISLAMIA JHANG (A)	259	407.01	58.43	259	66.74	16.22	259	81.33	7.32	259	60.86	14.55
		GHSS RODU SULTAN JHANG	322	405.89	52.75	322	74.78	11.28	322	77.97	6.22	322	60.28	12.98
		GES SHEHNI WALA JHANG	258	404.6	57.38	258	66.93	11.17	258	75.6	8.51	258	69.35	13.39
		GHS SHER CHAKAR JHANG (A)	233	404.53	35.07	233	71.5	10.51	233	77.3	6.37	233	58.35	10.44
		GES CHOHAN JHANG (A)	230	403.53	31.45	230	75.17	7.43	230	80	4.7	230	54.98	10.83
		GHS MARRI SHAH SUKHEIRA JHANG	188	401.5	33.33	188	73.65	10.42	188	79.4	5.29	188	43.88	10.95
		GES GHAZI ABAD JHANG	283	400.21	46.03	283	61.77	14.15	283	80.72	5.96	283	59.48	14.26

	GGHS SADAR JHANG (A)	239	399.23	66.55	239	57.47	17.55	239	81	6.95	239	51.13	17.49
	GGHS SADAR JHANG (B)	236	397.96	66.1	236	69.2	16.2	236	83.1	6.22	236	51.52	13.77
	GGHS JHANG CITY JHANG (A)	270	397.28	53.94	270	65.98	15.81	270	79.27	7.5	270	54.54	15.01
	GHS KOT KHAIRA JHANG (A)	192	396.57	36.05	192	69.78	11.31	192	66.81	8.07	192	58.09	9.42
	GGHSS CHAK NO. 170/JB JHANG	115	394.81	54.62	115	68.49	8.97	115	79.89	7.26	115	48.41	17.62
	GHS RAIL BAZAR JHANG (B)	192	394.54	50.18	192	63.08	14.91	192	77.31	9.01	192	57.63	15.52
	GHS SHER CHAKAR JHANG (B)	148	393.09	29.65	148	75.55	9.33	148	79.15	5.17	148	59.68	7.6
	MISALI GHAZALIAN CANAL ROAD JHANG	182	390.34	54.62	182	63.35	16.41	182	80.54	5.96	182	51.2	14.47
	GGES 18-HAZARI JHANG (A)	151	388.03	35.4	151	63.07	8.49	151	75.79	9.45	151	69.5	7.2
	GGES S/TOWN JHANG	281	384.98	64	281	51.25	22.47	281	72.7	10.49	281	59.88	12
	GGES BASTI MAI HEER JHANG	165	384.79	60.8	165	60.81	16.45	165	78.13	7.79	165	48.44	15.85
	GGHS BASTI MALAH JHANG	218	383.46	50.48	218	55.49	14.58	218	82.26	5.62	218	54.71	10.32
	GES JHANG CITY JHANG	205	375.57	51.34	205	60.54	12.23	205	72.92	6.96	205	56.31	16.92
	GHS KOT SHAKIR JHANG	300	374.34	39.61	300	62.56	10.38	300	76.73	5.87	300	51.24	10.71
	GGES CHUND BHARWANA JHANG	143	374.33	43.06	143	68.38	4.51	143	72.94	8.97	143	48.52	17.05
	GHS MACHI WAL JHANG	142	370.39	54.84	142	66.04	14.19	142	77.63	7.67	142	48.13	16.74
	GHS CHUND BHARWANA JHANG (A)	306	370.23	36.53	306	69.69	10.96	306	74.17	8.24	306	48.18	17.05
	GHS COLLEGE ROAD JHANG (A)	237	367.81	48.5	237	49.23	17.57	237	74.83	6.91	237	54.15	12.55
	GES BARKAT ABAD JHANG	165	366.86	56.92	165	54.02	17.74	165	73.64	8.26	165	52.67	14.85
	GGHS S/TOWN JHANG (B)	192	365.91	53.03	192	47.2	17.89	192	82.99	6.39	192	47.52	11.16
	GHS HAVELI LAL JHANG	335	364.17	55.16	335	53.88	17.5	335	75.21	8.02	335	54.64	14.59
	GHS WASU ASTANA JHANG (A)	177	361.76	45.31	177	61.66	10.72	177	76.6	5.9	177	50.83	12.16
	GGHSS BAGH JHANG (A)	234	356.8	50.01	234	51.53	14.99	234	80.61	5.59	234	46.85	12.6
	GHS CHAK NO. 255/JB JHANG (A)	268	355.8	40.47	268	61.68	10.64	268	70.67	7.97	268	53.66	12.76
	GHS COM. MODEL JHANG (A)	213	353.73	55.21	213	57.99	14.08	213	78.79	7.62	213	48.07	14.8
	GHS WASU ASTANA JHANG (B)	179	353.46	55.43	179	58.13	14.71	179	77.44	8.06	179	45.34	12.4
	GHSS MANDI SHAH JEWNA JHANG (A)	241	352.2	64.65	241	72.24	10.39	241	73.62	9.3	241	43.97	18.61
	GHS SULTAN PUR JHANG (A)	167	345.4	56.2	167	55.57	15.34	167	69.53	10.13	167	42.63	13.85
	GGES CHAK SHUMALI JHANG	187	341.59	43.63	187	52.32	13.08	187	78.56	5.83	187	43.26	11.37
	GHS RAIL BAZAR JHANG (A)	195	340.69	76.38	195	47.33	17.9	195	71.61	9.4	195	50.03	17.44
	GHSS BAGH JHANG (B)	203	338.88	54.38	203	43.66	15.73	203	74.77	8.56	203	48.38	14.34
	GGHS KOT SAI SINGH JHANG	85	336.16	36.62	85	60.65	8.13	85	75.39	7.05	85	40.38	10.85
	GHS KOT SAI SINGH JHANG	191	333.05	46.25	191	54.24	13.19	191	73.84	8.41	191	38.55	14.09
	GHS CHAK NO. 455/JB JHANG	261	325.84	48.63	261	49.89	12.09	261	70.2	9.04	261	42.88	15.4
	GGHSS A.P SIAL (A)	282	324.22	63.04	282	40.14	18.58	282	78.59	7.05	282	49.72	14.98
	GHS CHAK NO. 232/JB JHANG	208	320.49	61.73	208	46.89	15.09	208	69.88	10.14	208	44.79	15.24
	GHS CHAK NO. 175/JB JHANG	143	319.56	49.2	143	51.23	14.44	143	69.36	8.38	143	37.8	11.31
	GHSS BAGH JHANG (A)	190	318.25	55.03	190	43.42	13.23	190	68.86	8.94	190	46.9	13.7
	GHS MOONDA JHANG (A)	271	317.33	54.84	271	52.11	13.65	271	74.78	7.7	271	43.81	12.9
	GHS JABOANA JHANG	76	312	50.23	76	39.87	15.75	76	68.33	7.92	76	38.54	12.39

		GGHS CHAK JANOOBI JHANG (A)	191	305.9	46.41	191	48.38	10.2	191	75.14	6.7	191	34.76	12.12
		GHS CHAK NO. 214/JB JHANG (A)	237	297.13	47.99	237	51.76	11.22	237	65.76	9.91	237	34.96	13.06
	Shorkot	GHS KHAKI LAKHI SHORKOT	158	442.75	22.5	158	78.83	6.18	158	78.34	4.94	158	79.99	5.47
		GES JALAL PUR KAMLANA SHORKOT	77	435.66	22.5	77	77.32	5.78	77	79.09	4.31	77	68.05	6.64
		GHS ALLAH YAR JOOTA SHORKOT	170	418.15	28.18	170	67.75	6.62	170	76.59	4.88	170	76.09	8.73
		GES MERIK SIAL SHORKOT	134	416.54	31.47	134	70.56	9.87	134	75.87	5.44	134	70.11	7.81
		GHS BHANGOO SHORKOT	122	408.8	38.36	122	60.29	12.11	122	76.79	7.38	122	77.52	10.27
		GHS DABKALAN SHORKOT	92	408.18	39.38	92	66.8	11.68	92	77.76	6.49	92	78.04	9.02
		GGHS SHORKOT CANTT SHORKOT (A)	294	403.09	38.11	294	71.87	7.62	294	78.87	9.29	294	62.46	11.84
		GHS SHORKOT CITY SHORKOT (A)	236	390.82	40.93	236	62.4	11.63	236	76.11	7.82	236	64.17	13.05
		GES SHORKOT CITY SHORKOT	176	384.91	41.86	176	63.49	11.03	176	73.87	7.08	176	66.68	11.94
		GGES NAI BASTI SHORKOT	126	382.98	53.26	126	63.97	13.95	126	71.82	8.99	126	63.27	9.61
		GHS KHUMANA WALA SHORKOT	229	382.58	46.2	229	71.36	9.46	229	71.93	8.82	229	63.13	12.3
		GGES CHAK NO. 493/JB SHORKOT	97	382.36	42.32	97	77.57	8.12	97	65.88	10.22	97	48.68	13.92
		GGES CHAK NO. 481/JB SHORKOT	115	372.11	50.68	115	57.02	10.96	115	78.47	7.95	115	57.1	14.42
		GHS 16- GHAGH SHORKOT	185	369.48	51.2	185	62.06	15.46	185	69.43	12.58	185	62.14	18.94
		GES ABBAS PURA SHORKOT	182	361.79	62.88	182	62.43	15.51	182	75.25	8.42	182	52.6	14.75
		GHS SHORKOT CANTT SHORKOT	218	360.77	41.23	218	62.16	10	218	75.63	7.4	218	50.69	14.05
		GGHS SHORKOT CITY SHORKOT	256	360.04	53.59	256	61.78	15.93	256	79.27	7.06	256	56.61	12.8
		GGHS KAKI NAU SHORKOT	121	359.79	42.17	121	53.64	10.58	121	77.17	5.03	121	46.95	11.62
		GGHS H.B SHAH SHORKOT	91	356.43	35.95	91	50.41	10.12	91	79.59	5.2	91	64.74	10.58
		GHSS H.B SHAH SHORKOT	222	351.24	48.73	222	58.14	9.61	222	76.62	7.04	222	52.16	14.02
		GGES WARYAM WALA SHORKOT	168	347.51	44.74	168	47.07	13.15	168	80.76	5.24	168	55.74	10.03
		GHS QAIM BHARWANA SHORKOT	156	345.54	42.69	156	55.4	11.85	156	76.1	7.02	156	45.65	14.58
		GHSS WARYAM WALA SHORKOT	189	344.26	47.54	189	56.14	11.81	189	70.99	8.3	189	52.89	13.14
		GGHS QAIM BHARWANA SHORKOT	127	339.64	40.97	127	39.87	13.18	127	77.48	8.08	127	48.56	12.13
		GHS CHAK NO. 493/JB SHORKOT	113	333.72	33.76	113	62.75	9.81	113	67.69	7.55	113	44.03	13.85
		GHS KAKI NAU SHORKOT (A)	194	330.61	56.97	194	53.59	18.91	194	71.1	8.81	194	47.57	14.82
		GHS CHAK NO. 478/JB SHORKOT	138	321.04	45.29	138	48.86	14.73	138	66.54	6.35	138	45.92	12.68

Table 5.2b

Center wise Analysis of District Jhang

District	Tehsil	Centers	SCI			SOC			URDU		
			N	M	SD	N	M	SD	N	M	SD
Jhang	Ahmedpur Sial	GES MUD RAJBANA A.P SIAL	162	70.58	5.69	162	75.82	4.67	162	67.37	9.15
		GES MAKORIAN WALA A.P SIAL	195	63.75	8.95	195	72.68	7.29	195	75.25	8.05
		GES 6/3 L A.P SIAL	125	61.88	12.13	125	76.01	8.58	125	75.99	11.9
		GHS DULL A.P SIAL	131	58.98	9.22	131	66.24	8.74	131	68.67	9.07
		GES DAGREE SHARQI A.P SIAL	181	58.04	8.62	181	65.67	11.6	181	69.6	10.71
		GHSS HASU BALAIL A.P SIAL	106	54.58	9.61	106	69.06	8.84	106	69.89	7.62
		GHS NEKOKARA A.P SIAL	82	54.4	14.61	82	60.83	10.74	82	55.84	10.72
		GES DAULOANA A.P SIAL	138	53.85	8.13	138	70.96	7.6	138	70.31	8.27
		GHS GUDDARA A.P SIAL	157	53.21	7.87	157	66.41	6.97	157	60.97	9.7
		GHS SAMANDOANA A.P SIAL	101	53.2	6.89	101	56.33	10.65	101	71.62	5.47
		GHS SULTAN BAHOO A.P SIAL	110	52.89	8.17	110	59.72	8.56	110	54.45	12.67
		GHSS GM RAJA A.P SIAL (A)	160	52.7	9.33	160	65.46	9.36	160	71.05	9.57
		GHS GILKALA A.P SIAL	107	50.63	8.75	107	70.08	7.44	107	65.67	8.46
		GHS PIR ABDUL REHMAN A.P SIAL	155	49.65	5.64	155	63.4	7.68	155	55.41	11.4
		GES KOT BAHADAR SHAH A.P SIAL	253	48.41	10.23	253	60.07	15.73	253	58.54	14.46
		GHS A.P SIAL (B)	183	47.02	11.86	183	59.44	13.52	183	61.69	13.38
		GHS GARH MORE A.P SIAL	154	45.62	12.06	154	53.83	13.78	154	64.6	11.55
		GGHSS A.P SIAL (A)	282	45.6	11.96	282	52.1	14.43	282	58.07	13.52
		GGHS GM RAJA A.P SIAL	166	45.22	14.91	166	54.35	15.25	166	64.39	14.2
		GHS ISA WALA A.P SIAL	164	42.41	14.43	164	72.17	7.92	164	69.08	8.33
		GHS A.P SIAL (A)	201	41.81	13.49	201	54.31	10.38	201	61.88	10.63
	Jhang	GES S/TOWN JHANG (A)	319	72.43	10.63	319	67.46	10.18	319	70.55	9.43
		GHS CHAK NO. 263/JB JHANG (A)	207	71.86	6.31	207	71.34	7.96	207	74.69	5.37
		DISTRICT JAIL JHANG	7	71.57	1.4	7	88	3.46	7	71.43	3.6
		GGHS S/TOWN JHANG (A)	183	70.54	12.13	183	74.27	9.68	183	73.75	9.48
		GGHS MANDI SHAH JEWNA JHANG	205	69.31	12.25	205	68.52	7.84	205	70.75	7.73
		GGHS BASTI MALAH JHANG	218	68.59	12.19	218	61.37	12.67	218	61.05	11.49
		CHENAB COLLEGE CHINIOT ROAD JHANG	209	67.83	14.12	209	73.16	11.25	209	74.38	8.89
		GHS MUKHIANA JHANG	142	67.7	9.18	142	73.19	5.7	142	69.75	7.45
		GHS CHAK NO. 170/JB JHANG	182	67.19	8.9	182	71.74	8.51	182	71.79	8.45
		GHS SHER CHAKAR JHANG (A)	233	66.25	6.54	233	67.15	14.88	233	63.97	7.42
		GGHS BASHIR JHANG (A)	266	66	10.26	266	75.99	9.2	266	73.36	9.06
		GGHS SADAR JHANG (A)	239	65.09	14.57	239	73.66	13.12	239	70.88	10.73
		GHS PIR KOT SADHANA JHANG (A)	236	64.64	6.12	236	62.42	10.71	236	73.02	7.22

	GHS JHANG CITY JHANG (A)	277	64.19	6.9	277	72.55	5.98	277	74.48	5.46
	GGHS BASHIR JHANG (B)	242	63.82	12.28	242	71.04	8.37	242	71.59	8.96
	GHS KOT KHAIRA JHANG (A)	192	63.72	8.05	192	70.58	9.85	192	67.58	9.9
	GES SHEHNI WALA JHANG	258	62.47	12.14	258	60.43	13.75	258	69.82	10.58
	GHS KOT ESSA SHAH JHANG (A)	278	61.96	5.62	278	68.72	5.78	278	71.96	6.19
	GHS HUSSAINIA JHANG (B)	248	61.54	12.46	248	78.57	9.78	248	78.06	8.14
	GHS SHAH JEWNA CITY JHANG (A)	344	60.88	9.31	344	67.8	7.88	344	75.6	7.53
	GHS MARRI SHAH SUKHEIRA JHANG	188	60.64	10.01	188	73.94	5.91	188	69.99	8.77
	GGES MOH. KAPAYAN JHANG	208	59.34	13.5	208	75.55	8.41	208	70.28	9.16
	GES JHANG CITY JHANG	205	59.27	12.04	205	60.84	9.41	205	65.69	9.79
	GHS SHER CHAKAR JHANG (B)	148	59.18	5.85	148	51.86	11.14	148	67.68	11.34
	GGES BASTI MAI HEER JHANG	165	58.9	12.79	165	69.61	11.04	165	68.92	9.2
	GHS RAIL BAZAR JHANG (B)	192	58.8	10.37	192	69.54	11.44	192	68.18	8.24
	GHS HUSSAINIA JHANG (A)	266	58.62	15.9	266	73.48	11.77	266	62.85	9.74
	GGES MOH. SULTAN WALA JHANG	298	58.53	10.39	298	78.08	8.5	298	71.37	9.05
	GES GHAZI ABAD JHANG	283	58.52	11.97	283	71.06	10.16	283	68.66	8.2
	GHS ISLAMIA JHANG (A)	259	57.78	12.09	259	71.45	12.92	259	68.86	11.05
	GES 18-HAZARI JHANG (A)	310	57.12	13.41	310	72.44	11.63	310	66.19	9.17
	GGHS WASU ASTANA JHANG	194	56.95	12.51	194	72.03	9.7	194	66.44	10.47
	GGES S/TOWN JHANG	281	56.9	12.47	281	75.54	10.93	281	68.7	10.04
	GHS SULTAN PUR JHANG (A)	167	56.67	8.76	167	60.12	8.48	167	60.87	12.62
	GHS KHANUANA JHANG	230	56.23	11.42	230	79.1	9.32	230	74.22	9.94
	GHS COLLEGE ROAD JHANG (A)	237	55.95	8.46	237	64.29	10.33	237	69.36	9.55
	MISALI GHAZALIAN CANAL ROAD JHANG	182	55.9	13.36	182	70.89	12.12	182	68.47	11.22
	GGHS JHANG CITY JHANG (A)	270	55.73	11.52	270	68.92	12.08	270	72.84	9.73
	GHS SALYANA JHANG (A)	163	55.45	13.3	163	69.25	8.61	163	70.69	9.3
	GHS LONG SHUMALI JHANG (A)	341	55.4	14.15	341	70.88	5.96	341	68.84	7.35
	GGHSS CHAK NO. 170/JB JHANG	115	55.4	11.07	115	73.58	11.06	115	69.04	12.51
	GHSS RODU SULTAN JHANG	322	55.34	12.62	322	69.3	11.39	322	68.22	10.5
	GGES CHUND BHARWANA JHANG	143	55.34	10.15	143	64.91	8.8	143	64.24	9.96
	GHS CHUND BHARWANA JHANG (A)	306	54.73	10.87	306	60.39	9.44	306	63.08	8.46
	GHS CHAK NO. 232/JB JHANG	208	54.37	12.63	208	49.18	13.47	208	55.38	12.11
	GGHS SADAR JHANG (B)	236	53.31	18.8	236	71.31	10.73	236	69.53	12.14
	GES BARKAT ABAD JHANG	165	53.18	11.82	165	68.12	10.83	165	65.23	10.86
	GHS HAVELI LAL JHANG	335	52.34	11.66	335	64.52	10.77	335	63.58	10.72
	GGES CHAK SHUMALI JHANG	187	52.04	8.91	187	54.73	9.05	187	60.68	9.4
	GHS LASHARI JHANG	199	51.68	9.94	199	71.67	9.3	199	64.95	8.63
	GHS WASU ASTANA JHANG (A)	177	51.42	13.49	177	67.56	11.31	177	53.69	11.29
	GHS CHAK NO. 255/JB JHANG (A)	268	51.1	10.98	268	59.19	8.09	268	59.5	9.19
	GGES 18-HAZARI JHANG (A)	151	50.8	10.05	151	66.72	10.14	151	62.14	9.53

		GGHS S/TOWN JHANG (B)	192	50.53	11.42	192	70.98	11.36	192	66.69	8.79
		GES CHOHAN JHANG (A)	230	50.17	8.38	230	73.4	6.34	230	69.81	8.81
		GHS COM. MODEL JHANG (A)	213	49.72	13.73	213	58.6	12.96	213	60.56	8.82
		GHS MACHI WAL JHANG	142	49.56	9.76	142	64.81	10.62	142	64.23	12.37
		GHS CHAK NO. 455/JB JHANG	261	48.9	13.41	261	55.07	10.01	261	58.9	10.75
		GHS CHAK NO. 175/JB JHANG	143	48.88	10.26	143	59.22	10.42	143	53.07	10.97
		GHSS MANDI SHAH JEWNA JHANG (A)	241	48.73	14.93	241	55.54	13.21	241	58.11	14.16
		GGHSS BAGH JHANG (A)	234	48.59	11.02	234	63.47	12.2	234	65.75	10.73
		GHS RAIL BAZAR JHANG (A)	195	48.43	15.86	195	61.87	14.35	195	61.43	14.73
		GGHS RODU SULTAN JHANG (A)	202	48.36	8.87	202	75.26	6.58	202	77.42	8.25
		GGHS CHAK JANOOBI JHANG (A)	191	48.21	10.49	191	46.15	9.77	191	53.25	10.15
		GHSS BAGH JHANG (B)	203	47.67	11.52	203	64.75	11.66	203	59.66	10.68
		GHS JABOANA JHANG	76	46.51	11.95	76	59.04	10.96	76	59.71	9.87
		GHS KOT SAI SINGH JHANG	191	45.18	11.98	191	60.39	9.15	191	60.86	9.59
		GHS CHAK NO. 214/JB JHANG (A)	237	44.72	12.32	237	47.83	10.44	237	52.1	11.33
		GHSS BAGH JHANG (A)	190	44.64	13.47	190	60.34	11.66	190	54.09	10.45
		GHS WASU ASTANA JHANG (B)	179	44.2	13.79	179	66.29	9.12	179	62.07	13.45
		GHS MOONDA JHANG (A)	271	43.39	12.16	271	49.76	11.03	271	53.47	12.18
		GHS KOT SHAKIR JHANG	300	43.26	5.88	300	64.23	13.15	300	76.31	10.53
		GGHS KOT SAI SINGH JHANG	85	42.33	7.77	85	58.49	12.13	85	58.93	8.73
	Shorkot	GES JALAL PUR KAMLANA SHORKOT	77	67.29	6.93	77	76.52	3.81	77	67.39	5.19
		GES MERIK SIAL SHORKOT	134	63.7	8.12	134	67.64	7.32	134	68.66	7.83
		GHS ALLAH YAR JOOTA SHORKOT	170	62.3	7.6	170	68.71	6.12	170	66.7	6.72
		GHS BHANGOO SHORKOT	122	61.7	10.64	122	66.81	7.62	122	65.7	6.4
		GHS KHAKI LAKHI SHORKOT	158	61.27	8.08	158	74.27	5.73	158	70.05	4.75
		GHS SHORKOT CITY SHORKOT (A)	236	59.67	15.09	236	65.11	8.24	236	63.36	12.69
		GHS KHUMANA WALA SHORKOT	229	58.68	8.75	229	54.3	13.61	229	63.17	9.41
		GGHS SHORKOT CANTT SHORKOT (A)	294	58.08	11.87	294	65.5	8.94	294	66.3	7.97
		GGES NAI BASTI SHORKOT	126	57.73	13.25	126	59.79	11.56	126	66.4	8.23
		GHS 16- GHAGH SHORKOT	185	55.86	9.97	185	56.83	10.5	185	63.16	10.51
		GGHS KAKI NAU SHORKOT	121	55.47	8.74	121	59.17	8.82	121	67.38	8.01
		GHS DABKALAN SHORKOT	92	55.38	7.96	92	64.01	6.84	92	66.18	6.77
		GES SHORKOT CITY SHORKOT	176	55.01	11.48	176	62.13	9.11	176	63.73	9.77
		GHS CHAK NO. 493/JB SHORKOT	113	54.59	11.54	113	53.62	10.59	113	51.04	12.21
		GHS SHORKOT CANTT SHORKOT	218	53.69	9.64	218	62.2	10.24	218	56.4	10.46
		GES ABBAS PURA SHORKOT	182	53.67	12.76	182	57.29	12.06	182	60.55	11.99
		GHS QAIM BHARWANA SHORKOT	156	53.24	9.77	156	54.91	9.69	156	60.23	11.78
		GGHS QAIM BHARWANA SHORKOT	127	52.57	10.15	127	55.72	8.91	127	65.44	8.63
		GGES CHAK NO. 481/JB SHORKOT	115	51.48	9.62	115	64.28	10.38	115	63.77	8.52
		GGES CHAK NO. 493/JB SHORKOT	97	51.27	10.47	97	71.37	8.89	97	67.6	6.52

		GHSS H.B SHAH SHORKOT	222	51.18	9.24	222	55.38	12.58	222	57.77	12.18
		GHSS WARYAM WALA SHORKOT	189	50.85	11.61	189	54.94	9.36	189	58.44	9.77
		GGES WARYAM WALA SHORKOT	168	50.25	10.07	168	49.88	9.63	168	63.8	8.07
		GGHS H.B SHAH SHORKOT	91	48.36	8.17	91	52.31	8.91	91	61.02	8.5
		GHS KAKI NAU SHORKOT (A)	194	47.01	14.74	194	53.76	11.08	194	57.59	11.79
		GHS CHAK NO. 478/JB SHORKOT	138	43.91	12.1	138	62.67	12.35	138	53.12	11.14
		GGHS SHORKOT CITY SHORKOT	256	41.66	13.98	256	56.09	12.19	256	64.62	9.19

Table 5.3a

Center wise Analysis of District Muzaffargarh

District	Tehsil	Centers	Total Score			ENG			ISL			MATH		
			N	M	SD	N	M	SD	N	M	SD	N	M	SD
Muzaffargarh	Alipur	RASHID GIRLS HIGH SCHOOL ALI PUR	94	525.2	11.3	94	86.37	3.74	94	89.05	1.84	94	92.77	3.77
		GOVT.HIGH SCHOOL ALI WALI	121	493.93	22.36	121	79.98	5	121	86.5	2.75	121	83.62	4.95
		GOVT. ELEMANTRY SCHOOL GHALWAN	307	487.43	29.6	307	81.53	6.86	307	85.95	5.38	307	81.82	13.03
		GOVT. HIGH SCHOOL ALI PUR CENTRE NO. (II)	299	485.42	25.71	299	84.36	5.9	299	84.79	4.04	299	79.24	11.14
		GOVT. HIGH SCHOOL ALI PUR CENTRE NO. (III)	214	484.38	25.16	214	82.58	6.93	214	85.62	3.41	214	78.42	9.89
		GOVT. ELEMANTRY SCHOOL JAHAN PUR	85	478.81	27.69	85	76.42	6.79	85	83.49	7.57	85	81.6	11.54
		GOVT. GIRLS HIGH SCHOOL ALI PUR CENTRE NO.(I)	197	471.24	35.44	197	80.12	6.37	197	85.68	5.03	197	67.25	14.27
		GOVT. GIRLS ELEMANTRY SCHOOL ALI PUR	256	463.08	27.3	256	76.78	9.24	256	83.43	4.85	256	73	7.53
		GOVT. ELEMANTRY SCHOOL ALI PUR	262	454.58	48.97	262	75.12	12.54	262	79.29	10.25	262	66.73	15.09
		GOVT. GIRLS ELEMANTRY SCHOOL THAHEEM WALA	81	454.28	24.13	81	75.09	7.78	81	83.93	3	81	71.16	8.47
		GOVT. HIGH SCHOOL KHAIR PUR SADAT CENTRE NO.(II)	179	452	34.5	179	78.77	10.54	179	88.58	7.9	179	61.11	13.1
		GOVT. HIGH SCHOOL ALI PUR CENTRE NO.(I)	142	450.3	23.71	142	76.51	6.24	142	87.96	3.84	142	62.29	9.83
		GOVT.ELEMENTARY SCHOOL CHOKI GABOOL	97	446.67	25.74	97	77.4	5.88	97	82.73	6.06	97	72.84	8.79
		GOVT. HIGH SCHOOL SEET PUR	384	446.16	38.23	384	79.86	6.69	384	83.48	5.74	384	71.07	15.1
		GOVT.ELEMENTARY SCHOOL PUNJNAD	83	445.11	33.73	83	76.02	7.73	83	83.81	3.76	83	78.55	9.99
		GOVT. HIGH SCHOOL BARA	174	438.13	33.15	174	77.01	5.5	174	80.08	5.26	174	64.43	11.27
		GOVT. HIGH SCHOOL THAHEEM WALA	143	435.77	29.81	143	65.84	9.48	143	82.34	4.85	143	80.15	8.69
		GOVT. HIGH SCHOOL MARIAN	58	433.16	31.7	58	70.78	11.13	58	67.02	4.78	58	74.84	6.74
		GOVT. HIGH SCHOOL KHAIR PUR SADAT CENTRE NO. (I)	185	427.75	31.22	185	80.85	6.99	185	87.23	5.16	185	46.41	14.28
		GOVT. GIRLS Elemenry School Ali Pur Center NO (I)	91	402.37	33.38	91	58.6	9.74	91	76.26	7.08	91	66.46	8.66
		GOVT. HIGH SCHOOL SULTAN PUR	141	398.53	28.68	141	80.38	8.01	141	80.94	4.82	141	42.1	12.35
	Jatoi	GOVT. Elemenry School Kandh Sharif Centre NO (II)	130	499.28	18.1	130	84.62	6.32	130	84.9	3.16	130	83.89	3.81
		GOVT. ELEMANTRY SCHOOL SABAY WALA	106	490.07	26	106	83.23	8.98	106	90	4.66	106	81.92	5.33
		GOVT. Elemenry School Kandh Sharif Centre NO (I)	108	475.17	20.04	108	78.93	6.82	108	87.92	3.52	108	80.81	5.89
		GOVT. ELEMENTARY SCHOOL SEETHARI	112	474.51	25.81	112	79.11	8.63	112	89.73	3.26	112	78.41	8.53
		GOVT.HIGH SCHOOL KALLAR WALI	198	459.17	24.19	198	78.03	8.71	198	83.42	4.31	198	70.32	8.5
		GOVT. HIGH SCHOOL MUHAMMAD WALI	98	457.56	24.91	98	74.91	7.4	98	88.12	3.57	98	69.58	5.47
		GOVT. HIGH SCHOOL BINDA ISHAQ CENTRE NO (I)	89	457.18	22.43	89	61.65	5.49	89	85.51	3.22	89	75.76	7.08
		GOVT.ELEMENTARY SCHOOL JATOI CITY	200	456.36	38.39	200	78.57	9.99	200	84.91	6.1	200	77.87	12.83
		GOVT. HIGH SCHOOL JATOI CENTRE NO.(I)	201	456.01	23.78	201	75.21	6.6	201	85.58	4.91	201	72.72	8.86
		GOVT. HIGH SCHOOL JATOI CENTRE NO.(III)	19	455.68	23.28	19	76.42	7.85	19	80.89	4.65	19	67.42	8.65
		GOVT. HIGH SCHOOL BEELAY WALA	188	452.59	25.9	188	75.97	7.01	188	77.91	3.91	188	71.35	12.46
		GOVT. HIGH SCHOOL PERMAT	179	450.57	37.73	179	77.94	8.33	179	86.75	5.46	179	63.32	12.67
		GOVT. HIGH SCHOOL JHUGI WALA	340	450.02	36.88	340	75.42	13.15	340	85.42	4.39	340	67	14.39

		GOVT.ELEMENTARY SCHOOL NAMURDI	76	446.86	24.27	76	73.53	7.33	76	85.74	4.37	76	65.99	7.14
		GOVT. GIRLS HIGH SCHOOL JATOI	219	440.04	36.9	219	76.81	10.26	219	79.95	6.79	219	62.86	13.14
		GOVT. HIGH SCHOOL HAMZAY WALI	169	436.44	30.5	169	68.67	12.2	169	75.74	5.9	169	67.78	9.13
		GOVT. HIGH SCHOOL MEER HAZAR KHAN CENTRE NO (II)	190	435.81	31.03	190	74.24	10.29	190	81.53	4.95	190	71.46	9.91
		GOVT. HIGH SCHOOL DAMMAR WALA SHUMALI	166	427.77	26.07	166	67.98	6.83	166	82.46	4.34	166	71.86	8.32
		GOVT. GIRLS ELEMENTARY SCHOOL JHUGGI WALA	65	427.75	20.65	65	75.15	5.27	65	78.89	4.76	65	66.08	4.21
		GOVT. HIGHER SCNDARY SCHOOL SHEHAR SULTAN CENTRE	227	425.61	28.79	227	76.64	8.04	227	78.71	5.35	227	60.65	12.5
		GOVT. HIGH SCHOOL BAIR BAND	161	415.51	38.81	161	73.28	10.71	161	74.79	5.9	161	69.81	10.72
		GOVT. HIGH SCHOOL MEER HAZAR KHAN CENTRE NO (I)	155	399.83	34.55	155	61.92	11.07	155	76.59	6.57	155	64.43	8.32
		GOVT. HIGH SCHOOL JATOI CENTRE NO.(II)	133	395.68	44	133	70.34	13.8	133	79.87	6.21	133	39.17	16.98
		GOVT. HIGH SCHOOL KOTLA GAMOON	86	390.19	33.07	86	64.07	13.57	86	77.17	4.37	86	49.14	12.3
		GOVT. HIGHER SECONDARY SCHOOL SHEHAR SULTAN CENTRE	152	384.05	45.27	152	69.44	14.61	152	77.69	5.81	152	52.7	13.23
		GOVT. GIRLS HIGH SHAHER SULTAN	169	305.62	53.51	169	47.63	19.44	169	66.92	7.67	169	36.07	13.99
	Kot Adu	GOVT. ELEMANTRY SCHOOL MUBARAK WALA	100	481.54	20.38	100	80.08	7.02	100	81.41	3.32	100	81.63	6.17
		GOVT. ELEMANTRY SCHOOL KOT ADU NO. 02	293	478.95	30.14	293	78.22	5.05	293	87.88	4.02	293	76.14	19.57
		GOVT.ELEMENTARY SCHOOL HAIDER GHAZI	49	471.33	17.82	49	82.31	3.45	49	82.1	4.05	49	76.76	5.62
		GOVT. ELEMANTRY SCHOOL HUSSAIN WALA	77	471.14	23.86	77	89.43	4.97	77	86.05	3.94	77	62.34	7.27
		GOVT HIGHER SECONDRY SCHOOL MEHMOOD KOT	243	468.14	32.75	243	82.83	7.46	243	85.3	5.73	243	75.64	10.6
		GOVT. HIGH SCHOOL KOT ADU CENTRE NO.(II)	111	464.68	45.09	111	83.8	9.82	111	84	6.45	111	63.95	21.34
		GOVT.ELEMENTARY SCHOOL CHAK NO.530/TDA	126	464.48	18.34	126	86.36	4.45	126	80.67	5.65	126	74.97	9.74
		GOVT. MILLAT MIDDLE SCHOOL KOT ADU	329	464.11	26.56	329	82.93	5.37	329	86.01	4.7	329	74.33	12.41
		GOVT. HIGH SCHOOL KOT ADU CENTRE NO.(I)	344	456.91	38.11	344	82.03	3.86	344	81.86	6.4	344	71.94	21.15
		GOVT. HIGHER SECONDARY SCHOOL GHAZI GHAT	157	454.96	37.5	157	72.96	11.45	157	83.92	7.35	157	63.75	12.16
		GOVT. GIRLS ELEMENTARY SCHOOL SHAIKH UMAR	113	451.36	19.4	113	80.81	5.65	113	80.97	4.15	113	64.44	6.94
		GOVT. ELEMENTARY SCHOOL KAHEERI SINAWAN	163	449.41	32.6	163	82.71	4.43	163	77.14	5.09	163	66.31	14.55
		GOVT ELEMENTARY SCHOOL CHAN WALA	278	449.04	20.73	278	65.81	8.11	278	81.97	5.15	278	79.22	9.8
		GOVT. HIGH SCHOOL DAIRA DIN PANAH CENTRE NO.(II)	61	448.72	36.94	61	84.3	4.89	61	88.2	3.63	61	70.25	11.55
		GOVT. ELEMANTRY SCHOOL DHARAM PUR	194	446.3	26.33	194	79.63	6.99	194	78.78	4.49	194	67.25	10.75
		GOVT. HIGH SCHOOL SHAIKH UMAR CENTRE NO.(I)	215	443.11	38.9	215	82.74	6.31	215	83.36	5.23	215	46.87	21.58
		GOVT.HIGH SCHOOL LASOORI	97	442.24	19.26	97	79.14	4.44	97	79.09	6.36	97	67.06	8.12
		GOVT. HIGH SCHOOL CHAK NO. 518 TDA - CENTRE NO (II)	241	438.31	37.58	241	79.64	9.3	241	81.53	4.86	241	63.87	15.17
		GOVT. GIRLS HIGH SCHOOL MEHMOOD KOT CITY	96	437.3	27.66	96	70.1	7.2	96	84.64	4.66	96	58.1	8.62
		GOVT. ELEMANTRY COLLEGE KOT ADU	305	436.56	43.74	305	79.7	7	305	83.51	8.56	305	60.27	12.62
		GOVT. GIRLS HIGH SCHOOL SINWAN	285	436.52	34.48	285	74.11	6.86	285	84.81	5.13	285	59.59	14.68
		GOVT ELEMENTARY SCHOOL CHAK NO 638 TDA	337	435.3	37.19	337	71.5	8.47	337	85.34	4.47	337	64.18	12.44
		GOVT. HIGH SCHOOL SHADI KHAN MUNDA	77	432.1	29.87	77	69.06	13.44	77	77.23	6.16	77	66.06	7.39
		GOVT. HIGH SCHOOL NO.01 KOT ADU(NEW CAMPUS) CENTRE	409	429.28	85.32	409	84.16	10.18	409	71.14	11.77	409	66.04	23.82

		GOVT. ELEMENTARY SCHOOL SINAWAN	156	428.24	71.95	156	60.86	16.29	156	82.4	9.18	156	59.4	25.88
		GOVT. HIGH SCHOOL DAUNA	185	426.83	42.83	185	71.37	11.33	185	82.16	4.12	185	67.94	19.35
		GOVT. HIGH SCHOOL KOHAWAR	150	424.87	37.71	150	70.04	11.96	150	82.17	5.59	150	63.52	10.11
		GOVT. ELEMANTRY SCHOOL CHAK BODLA	274	423.43	29.04	274	73.57	13.5	274	84.34	4.33	274	65.14	13.99
		GOVT.ELEMENTARY SCHOOL ARA AKBAR SHAH	156	422.95	22.38	156	72.49	8.42	156	73.29	6.78	156	60.8	12.25
		GOVT. HIGH SCHOOL IHSAN PUR	192	421.68	33.26	192	86.04	4.73	192	80.19	5.35	192	53.28	13.93
		GOVT. GIRLS ELEMANTRY SCHOOL DOUBLE SHIFT KOT ADU	218	419.65	29.92	218	70.18	7.44	218	84.98	4.13	218	43.54	12.91
		GOVT. GIRLS HIGH SCHOOL EHSAN PUR	65	419.08	21.71	65	83.86	4.94	65	80.18	5.39	65	30.31	6.71
		GOVT. GIRLS ELEMANTRY SCHOOL CHAK NO.518 TDA	113	419.03	27.86	113	75.78	5.84	113	80.23	5.04	113	49.29	13.29
		GOVT. GIRLS HIGH SCHOOL KOT ADU	216	419.01	47.78	216	76.84	10.99	216	84.16	5.62	216	45.07	20.08
		GOVT. GIRLS HIGH SCHOOL MOCHI WALA CENTRE NO (I)	99	415.22	46.76	99	68.26	10.44	99	85.95	4.54	99	53.48	19.34
		GOVT ELEMENTARY SCHOOL CHAK NO 521 TDA	145	414.9	42.4	145	72.86	10.78	145	75.06	7.1	145	64.52	11.33
		GOVT.Higher Secondary School Gujrat Centre NO (I)	213	409.43	63.4	213	60.33	21.22	213	82.54	8.15	213	55.49	17.23
		GOVT. HIGH SCHOOL SINAWAN CENTRE NO.(II)	197	408.14	49.77	197	63.53	16.24	197	83.74	6.73	197	48.93	13.79
		GOVT. HIGHER SECONDARY SCHOOL CHOWK SARWAR SHAHEED	613	407.33	56.73	613	64.88	14.08	613	81.53	8.58	613	60.28	16.2
		GOVT. HIGH SCHOOL GURMANI CENTRE NO (II)	154	400.48	55.05	154	61.71	17.52	154	78.85	5.44	154	52.69	18.02
		GOVT. ELEMANTRY SCHOOL CHOWK SARWAR SHAHEED CENTRE	580	399.85	62.6	580	71.86	12.81	580	79.59	7.48	580	53.51	17.49
		GOVT. HIGH SCHOOL DAIRA DIN PANAH CENTRE NO.(I)	194	395.15	47.25	194	68.82	14.58	194	79.18	6.02	194	56.04	12.11
		GOVT. GIRLS HIGH SCHOOL GUJRAT	81	392.43	26.24	81	75.04	5.37	81	77.74	4.86	81	43.51	11.43
		GOVT. HIGH SCHOOL CHEENA	95	387.32	54.16	95	65.89	12.33	95	77.78	6.35	95	49.69	23.02
		GOVT.GIRLS ELEMENTARY SCHOOL DAYA CHOKHA	54	387.22	27.4	54	77.33	6.44	54	70.7	7.04	54	48.24	9.89
		GOVT. GIRLS HIGH SCHOOL GURMANI	83	385.35	28.42	83	51.3	5.89	83	80.64	5.89	83	54.49	6.57
		GOVT. ELEMANTRY SCHOOL TIBBI NIZAM	78	380.9	45.01	78	65.41	10.09	78	75.96	5.26	78	53.5	10.62
		GOVT. HIGH SCHOOL CHAK NO. 518 TDA -CENTRE NO (I)	82	380.37	55.18	82	64.74	12.5	82	78.66	7.99	82	44.44	18.74
		GOVT. HIGH SCHOOL FAIZ ABAD CHAK NO.550/TDA	57	373.81	35.28	57	70.61	6.47	57	75.11	7.66	57	51.23	10.83
		GOVT. ELEMANTRY SCHOOL DAIRA DIN PANAH	237	366.7	45.7	237	71.95	8.37	237	82.39	6.77	237	38.01	12.73
		GOVT. HIGH SCHOOL SHAIKH UMAR CENTRE NO.(II)	133	362.37	42.59	133	64.08	11.65	133	71.56	7.47	133	44.53	16.43
		GOVT. GIRLS HIGH SCHOOL DAIRA DIN PANAH	197	359.92	36.4	197	66.61	10.11	197	76.77	7.38	197	27.88	10.88
		GOVT. GIRLS HIGHER SECONDARY SCHOOL CHOWK SARWAR S	140	356.35	43.74	140	41.01	8.43	140	80.12	7.34	140	54.64	11.07
		GOVT. ELEMENTARY SCHOOL KHAJJAR WALA	165	346.76	52.23	165	51.64	15.17	165	78.46	6.53	165	38.97	16.37
		GOVT. HIGH SCHOOL SINAWAN CENTRE NO.(I)	164	343.1	45.97	164	53.75	12.79	164	74.6	6.71	164	36.23	13.46
		GOVT. HIGH SCHOOL GURMANI CENTRE NO (I)	82	336.77	44.63	82	53.82	5.73	82	62.89	10.61	82	38.67	13.22
		GOVT. HIGH SCHOOL RAKH THAL WALI	197	289.59	50.44	197	34.97	11.17	197	66.84	10.69	197	29.26	12.24
	Muzaffargarh	MISALI PUBLIC MIDDLE SCHOOL DIN PUR CENTER NO (I)	279	560.63	5.93	279	94.71	1.99	279	95.84	1.62	279	93.14	2.04
		MISALI PUBLIC MIDDLE SCHOOL DIN PUR CENTER NO (II)	248	541	7.29	248	95.09	2.64	248	95.17	1.36	248	92.54	2.37
		GOVT. HIGH SCHOOL UMAR PUR JANOobi	65	512.88	20.63	65	86.54	3.25	65	86.46	3.66	65	89.25	5.55
		GOVT. ELEMANTRY SCHOOL TALIRI	252	504.88	21.68	252	85.27	9.05	252	87.65	2.95	252	84.77	5.16

		SHAKIR SCIENCE HIGHER SECONDARY SCHOOL PUL SHAMAS	187	504.31	32.35	187	91.51	7.6	187	92.36	2.99	187	64.08	19.46
		GOVT. HIGH SCHOOL BANGUL WALI	130	503.05	16.43	130	83.66	5.59	130	87.94	2.53	130	88.05	4.97
		GOVT. HIGH SCHOOL BARHIM WALI	140	502.19	20.86	140	78.11	9.02	140	84.67	2.74	140	90.16	5.22
		GOVT. HIGH SCHOOL KHANGARH	153	500.8	25.19	153	85.07	8.02	153	87.69	5.49	153	81.38	9.52
		GOVT.ELEMENTARY SCHOOL SONAKI	97	498.57	15.75	97	84.35	3.05	97	86.29	4.44	97	84.81	6.23
		GOVT. ELEMENTARY SCHOOL THATHA QUERSHI	66	498.02	17.35	66	88.27	1.44	66	85.79	3.38	66	66.97	10.33
		GOVT.ELEMENTARY SCHOOL MILLAT MUZAFFARGARH	155	497.44	44.76	155	84.12	5.16	155	88.87	4.4	155	78.7	16.35
		SARDAR KAUREY KHAN PUBLIC HIGH SCHOOL MUZAFFARGAR	227	496.89	24.92	227	92.66	6.28	227	86.33	4.08	227	75.24	9.91
		GOVT. High School Karam Dad Qureshi Centre No. (II)	296	487.69	21.69	296	85.01	4.76	296	88.22	4.07	296	76.11	11.55
		GOVT. ELEMENTARY SCHOOL WASANDAY WALI	218	480.92	25.55	218	83.01	5.89	218	85.56	3.52	218	84.57	6.04
		GOVT.ELEMENTARY SCHOOL CHOHR PUR	164	478.68	25.2	164	81.32	9.06	164	89.44	3.03	164	75.64	6.95
		GOVT. ELEMENTARY SCHOOL DIN PUR CENTER NO.(I)	133	477.15	30.46	133	79	10.92	133	85.46	4.48	133	74.49	8.82
		GOVT.ELEMENTARY SCHOOL BASTI MOND	84	477.14	22.12	84	82.19	7.95	84	83.38	7.01	84	88.32	5.96
		GOVT.ELEMENTARY SCHOOL NACHING	105	476.15	19.79	105	84.24	4.16	105	88.36	3.2	105	72.83	4.94
		GOVT. GIRLS HIGH SCHOOL KHANGARH	112	475.4	20.45	112	87.95	5.62	112	83.34	4.59	112	52.42	6.75
		GOVT. ELEMANTRY SCHOOL MODDLE KHANGARH CENTRE NO.(	325	473.26	27.99	325	81.43	7.65	325	85.29	6.2	325	77.02	12.12
		GOVT. ELEMANTRY COLLEGE MUZAFFARGARH	230	471.22	29.04	230	82.79	6.72	230	81.66	4.65	230	78.37	13.06
		GOVT.High School Karam Dad Qureshi Centre No (III)	290	467.23	33.27	290	76.66	7.38	290	84.24	6.74	290	71.36	13.57
		GOVT. GIRLS ELEMANTRY SCHOOL BASTI DRIGH	72	463.13	32.5	72	74.42	5.13	72	86.19	4.87	72	71.33	11.17
		GOVT.ELEMENTARY SCHOOL JERH RATHAIB	107	462.93	23.87	107	85.08	7.98	107	77.36	6.95	107	74.87	11.13
		GOVT. HIGH SCHOOL ALODAY WALI	231	456.27	37.11	231	72.64	9.44	231	83.71	4.54	231	70.97	10.85
		GOVT. M.C. GIRLS HIGH SCHOOL MUZAFFARGARH	149	455.88	45.76	149	75.74	8.35	149	83.41	4.98	149	64.19	17.9
		GOVT. HIGH SCHOOL BASTI DRIGH	94	454.66	27.83	94	71.3	6.53	94	82.43	3.47	94	69.68	12.74
		GOVT. HIGH SCHOOL BUDH	84	449.11	20.44	84	59.43	5.84	84	84.64	4.53	84	75.17	6.27
		GOVT.ELEMENTARY SCHOOL FATEH MUHAMMAD AMBREND	63	445.38	28.41	63	81	7.68	63	81.98	4.38	63	67.94	12.42
		GOVT. GIRLS HIGH SCHOOL BASIRA	308	442.32	45.44	308	82.71	8.97	308	81.96	7.29	308	48.24	16.19
		GOVT. HIGHER SECONDARY SCHOOL ROHILLAN WALI CENTRE	509	442.07	58.85	509	74.73	13.07	509	83.99	5.73	509	64.33	17.93
		GOVT. HIGH SCHOOL BASTI MAHARAN	332	440.5	32.45	332	79.84	7.04	332	84.28	5.93	332	54.59	14.15
		GOVT. GIRLS HIGH & NORMAL SCHOOL MUZAFFARGARH CENT	290	440.02	32.39	290	82.62	6.75	290	80.76	4.96	290	55.24	14.63
		GOVT.ELEMENTARY SCHOOL MEHAR PUR	196	438.12	39.84	196	74.34	11.46	196	87.3	4.6	196	58.88	15.25
		GOVT.HIGH SCHOOL MONDKA	88	436.88	21.18	88	78.41	7.31	88	72.91	5.06	88	56.55	6.2
		GOVT. HIGH SCHOOL MARHA	171	436.87	24.29	171	83.78	7.06	171	81.19	4.38	171	64.63	10.59
		GOVT. GIRLS ELEMANTARY SCHOOL KHANGARH	94	427.9	28.6	94	73.76	10.29	94	83.22	4.62	94	52.35	16.09
		GOVT. GIRLS HIGH SCHOOL KHURSHEED ABAD CENTRE NO (	409	426.28	35.51	409	75.46	10.19	409	79.87	6.8	409	61.47	11.67

	GOVT. HIGH SCHOOL AMEER PUR KANAKA	217	423.11	36.89	217	68.71	6.35	217	84.29	5.53	217	59.94	18.71
	GOVT. High School Karam Dad Qureshi Centre No. (I)	160	418.23	34.19	160	59.68	11.55	160	80.8	8.17	160	54.93	15.64
	GOVT. ELEMENTARY SCHOOL DIN PUR CENTER NO.(II)	50	414.42	74.24	50	67.38	17.07	50	81.28	6.77	50	58.9	24.54
	GOVT. HIGH SCHOOL BHUTTA PUR	120	413.18	33.31	120	73.02	9.82	120	74.63	6.37	120	51.72	12.93
	GOVT. HIGH SCEONDARY SCHOOL SHAH JAMAL CENTRE NO.(	260	412.88	23.78	260	60.54	6.55	260	83.37	5.37	260	70.25	7.86
	GOVT. HIGH SCHOOL DEWALA	131	410.53	35.55	131	67.24	8.02	131	83.84	6.58	131	53.21	10.57
	GOVT. HIGH SCHOOL KHAN PUR SHUMALI	302	407.32	39.27	302	73.65	13.05	302	82.68	5.6	302	56.41	12.34
	GOVT. GIRLS HIGH SCHOOL SHAH JAMAL	297	406.09	38.73	297	64.58	11.31	297	85.49	5.55	297	59.44	12.09
	GOVT. ELEMENTARY SCHOOL MIRAN PUR	56	401.71	33.66	56	47.5	18.87	56	77.38	3.68	56	67.93	5.27
	GOVT. HIGH SCHOOL TAL KOT CENTRE NO. (II)	264	397.72	56.29	264	59.59	19.77	264	80.74	5.72	264	58.26	13.7
	GOVT. HIGH SCHOOL SHARIF CHHAJRA	323	397.57	38.89	323	73.13	11.38	323	85.89	6.44	323	40.45	16.52
	GOVT. HIGH SCHOOL RANG PUR CENTRE NO.(II)	116	397.38	69.79	116	63.78	15.45	116	84.43	7.78	116	51.78	20.92
	GOVT. HIGH SCHOOL GULATI	217	395.79	48.45	217	67.64	11.43	217	84.28	7.36	217	47.82	17.08
	GOVT. HIGH SCHOOL LANGAR SARAY	152	392.06	31.94	152	70.37	10.3	152	76.54	6.26	152	50.82	8.16
	GOVT.COMP.HIGH SCHOOL MUZAFFARGARH	235	391.18	54	235	71.63	13.69	235	79.79	8	235	50.71	19.88
	GOVT. HIGH SCHOOL BASIRA	297	387	56.55	297	60.44	18.81	297	75.84	8.28	297	52.8	16.28
	GOVT. HIGH SCHOOL MURAD ABAD	177	371.67	30.11	177	65.44	11.94	177	82.47	4.83	177	35.23	9.21
	GOVT. HIGH SCHOOL TAL KOT CENTRE NO. (I)	159	370.47	49.91	159	59.28	14.29	159	76.79	5.62	159	43.36	11.76
	GOVT. GIRLS HIGHER SECONDARY SCHOOL ROHILLAN WALI	192	347.32	56.24	192	48.1	16.61	192	79.89	7.51	192	38.28	15.8
	GOVT. HIGH SCHOOL MUZAFFARGARH CENTRE NO.(I)	209	342.29	82.22	209	53.95	25.26	209	71.76	11.96	209	40.49	18.86
	GOVT. HIGH SCHOOL RANG PUR CENTRE NO.(I)	193	330.27	51.43	193	47.72	11.77	193	80.54	6.35	193	37.23	16.69

Table 5.3b

Center wise Analysis of District Muzaffargarh

District	Tehsil	Centers	SCI			SOC			URDU		
			N	M	SD	N	M	SD	N	M	SD
Muzaffargarh	Alipur	GOVT. HIGH SCHOOL ALI PUR CENTRE NO. (II)	299	86.91	6.88	299	74.18	5.18	299	75.94	5.84
		GOVT. ELEMANTRY SCHOOL GHALWAN	307	85.39	5.36	307	72.93	6.32	307	79.81	7.77
		RASHID GIRLS HIGH SCHOOL ALI PUR	94	85.03	5.16	94	79.89	3.91	94	92.09	1.75
		GOVT.HIGH SCHOOL ALI WALI	121	81.68	5.93	121	83.28	6.36	121	78.87	7.54
		GOVT. ELEMANTRY SCHOOL JAHAN PUR	85	80.58	4.52	85	82.8	7.28	85	73.92	6.74
		GOVT. GIRLS ELEMANTRY SCHOOL ALI PUR	256	77.92	6.07	256	72.29	6.67	256	79.66	6.47
		GOVT. GIRLS HIGH SCHOOL ALI PUR CENTRE NO.(I)	197	77.21	12.55	197	75.14	6.31	197	85.86	3.36
		GOVT. HIGH SCHOOL KHAIR PUR SADAT CENTRE NO.(II)	179	77.16	6.98	179	70.28	8.35	179	76.11	6.95
		GOVT. HIGH SCHOOL BARA	174	76.03	7.84	174	69.26	7.15	174	71.31	7.14
		GOVT. ELEMANTRY SCHOOL ALI PUR	262	74.02	9.86	262	84.68	7.44	262	74.74	7.69
		GOVT. HIGH SCHOOL ALI PUR CENTRE NO. (III)	214	73.89	7.91	214	85.33	7.51	214	78.54	7.92
		GOVT. GIRLS ELEMANTRY SCHOOL THAHEEM WALA	81	73.69	6.11	81	77.79	4.68	81	72.63	6.49
		GOVT.ELEMENTARY SCHOOL CHOKI GABOOL	97	73.56	6.02	97	74.05	4.96	97	66.09	6.04
		GOVT. HIGH SCHOOL MARIAN	58	71.95	6.66	58	71.69	7.44	58	76.88	9.21
		GOVT. HIGH SCHOOL KHAIR PUR SADAT CENTRE NO. (I)	185	69.89	6.89	185	69.15	8.36	185	74.21	6.36
		GOVT.ELEMENTARY SCHOOL PUNJNAD	83	65.47	6.35	83	70.46	7.2	83	70.8	11.22
		GOVT. HIGH SCHOOL SULTAN PUR	141	62.93	7.78	141	64.17	6	141	68.01	7.05
		GOVT. HIGH SCHOOL SEET PUR	384	62.36	10.85	384	75.11	6.02	384	74.28	7.68
		GOVT. HIGH SCHOOL ALI PUR CENTRE NO.(I)	142	59.26	6.94	142	78.7	6.92	142	85.58	4.28
		GOVT. GIRLS ELEMANTRY SCHOOL ALI PUR CENTER NO (I)	91	56.81	10.19	91	76.03	6.95	91	68.2	10.36
		GOVT. HIGH SCHOOL THAHEEM WALA	143	56.24	7.12	143	74.07	7.89	143	77.13	4.78
	Jatoi	GOVT. ELEMANTRY SCHOOL SABAY WALA	106	84.39	7.18	106	84.05	5.81	106	66.49	5.5
		GOVT. ELEMANTRY SCHOOL KANDH SHARIF CENTRE NO (I)	108	83.33	5.68	108	72.98	4.67	108	71.2	5.58
		GOVT.ELEMENTARY SCHOOL JATOI CITY	200	83.09	8.7	200	65.74	10.81	200	66.19	8.16
		GOVT. ELEMANTRY SCHOOL KANDH SHARIF CENTRE NO (II)	130	81.62	5.83	130	83.42	4.65	130	80.84	5.94
		GOVT. HIGH SCHOOL JATOI CENTRE NO.(III)	19	80.74	7.22	19	71.63	5.56	19	78.58	4.82
		GOVT. HIGH SCHOOL BEELAY WALA	188	80.48	6.41	188	68.76	6.21	188	78.1	5.99
		GOVT. HIGH SCHOOL MUHAMMAD WALI	98	80.42	6.12	98	73.15	5.98	98	71.38	7.51
		GOVT. HIGH SCHOOL PERMAT	179	80.25	7.69	179	68.59	8.84	179	73.71	9.76
		GOVT. HIGH SCHOOL JHUGI WALA	340	77.81	7.36	340	68.5	8.49	340	75.87	6.32
		GOVT. HIGH SCHOOL BINDA ISHAQ CENTRE NO (I)	89	76.4	5.11	89	84.94	8.41	89	72.91	6.42
		GOVT. GIRLS HIGH SCHOOL JATOI	219	74.87	10.27	219	72.31	7.32	219	73.22	9.18
		GOVT. HIGH SCHOOL JATOI CENTRE NO.(I)	201	74.76	6.57	201	70.75	4.32	201	77	6.27
		GOVT. HIGH SCHOOL MEER HAZAR KHAN CENTRE NO (II)	190	74.36	8.78	190	64	7.41	190	70.23	10.03

		GOVT. HIGH SCHOOL HAMZAY WALI	169	73.79	5.62	169	77.17	4.88	169	73.29	7.25
		GOVT.ELEMENTARY SCHOOL NAMURDI	76	73.71	7.69	76	70.89	5.58	76	77	5.67
		GOVT. HIGH SCHOOL JATOI CENTRE NO.(II)	133	73.29	10.1	133	64.5	10.66	133	68.51	9.73
		GOVT.HIGH SCHOOL KALLAR WALI	198	72.94	4.87	198	74.48	5.59	198	79.97	8.88
		GOVT. HIGHER SCNDARY SCHOOL SHEHAR SULTAN CENTRE	227	72.68	5.99	227	73.11	4.94	227	63.82	8.85
		GOVT. ELEMENTARY SCHOOL SEETHARI	112	71.79	7.52	112	84.69	5.63	112	70.79	5.98
		GOVT. HIGH SCHOOL KOTLA GAMOON	86	70.73	6.13	86	60.57	6.75	86	68.5	5.84
		GOVT. HIGH SCHOOL DAMMAR WALA SHUMALI	166	65.78	6.53	166	66.12	8.59	166	73.57	6.93
		GOVT. GIRLS ELEMENTARY SCHOOL JHUGGI WALA	65	63.85	8.71	65	68.05	4.51	65	75.74	3.67
		GOVT. HIGH SCHOOL BAIR BAND	161	62.36	10.85	161	72.55	8.15	161	62.71	9.92
		GOVT. HIGHER SECONDARY SCHOOL SHEHAR SULTAN CENTRE	152	56.82	11.15	152	64.63	11.09	152	62.77	8.5
		GOVT. HIGH SCHOOL MEER HAZAR KHAN CENTRE NO (I)	155	56.12	10.81	155	72.99	8.34	155	67.78	10.1
		GOVT. GIRLS HIGH SHAHER SULTAN	169	47.14	11.54	169	54.42	11.24	169	53.44	10.17
	Kot Adu	GOVT. ELEMANTRY SCHOOL KOT ADU NO. 02	293	85.58	6.89	293	73.67	4.34	293	77.46	4.65
		GOVT.ELEMENTARY SCHOOL HAIDER GHAZI	49	85.16	2.7	49	69.76	5.11	49	75.24	6.22
		GOVT. ELEMANTRY SCHOOL MUBARAK WALA	100	84.89	5.21	100	80.25	3.2	100	73.28	6.6
		GOVT.ELEMENTARY SCHOOL CHAK NO.530/TDA	126	82.56	2.55	126	64.34	5.2	126	75.59	4.5
		GOVT. GIRLS HIGH SCHOOL SINWAN	285	80.52	6.65	285	70.53	7.81	285	66.95	8.47
		GOVT ELEMENTARY SCHOOL CHAN WALA	278	80.31	5.3	278	74.84	6.71	278	66.91	5.24
		GOVT. HIGH SCHOOL KOT ADU CENTRE NO.(II)	111	79.87	11.25	111	76.78	6.19	111	76.27	6.88
		GOVT.HIGH SCHOOL LASOORI	97	79.13	7.02	97	67.19	4.36	97	70.62	8.21
		GOVT. GIRLS HIGH SCHOOL MEHMOOD KOT CITY	96	78.66	6.57	96	69.36	11.23	96	76.44	8.04
		GOVT.ELEMENTARY SCHOOL ARA AKBAR SHAH	156	78.5	5.84	156	74.49	3.83	156	63.38	6.04
		GOVT. HIGHER SECONDARY SCHOOL GHAZI GHAT	157	77.76	6.05	157	81.85	5.45	157	74.71	9.75
		GOVT. HIGH SCHOOL CHAK NO. 518 TDA - CENTRE NO (II)	241	77.4	10.6	241	69.17	6.14	241	66.69	12.36
		GOVT. ELEMANTRY SCHOOL HUSSAIN WALA	77	77.06	7.7	77	79.42	5.52	77	76.84	5.68
		GOVT. MILLAT MIDDLE SCHOOL KOT ADU	329	76.62	3.98	329	71.4	8.71	329	72.82	10.45
		GOVT. ELEMENTARY SCHOOL KAHEERI SINAWAN	163	75.09	8.23	163	74.99	7.28	163	73.17	7.65
		GOVT. GIRLS HIGH SCHOOL EHSAN PUR	65	75.08	6.55	65	65.89	4.75	65	83.75	4.66
		GOVT. GIRLS ELEMENTARY SCHOOL SHAIKH UMAR	113	74.9	5.8	113	73.27	5.23	113	76.97	4.36
		GOVT. HIGH SCHOOL KOHAWAR	150	73.26	11.33	150	67.41	5.27	150	68.48	9.97
		GOVT. HIGH SCHOOL SHAIKH UMAR CENTRE NO.(I)	215	73.16	5.05	215	75.88	6.11	215	81.1	9.52
		GOVT. ELEMANTRY COLLEGE KOT ADU	305	73.15	9.61	305	67.71	7.96	305	72.21	10.95
		GOVT. GIRLS ELEMANTRY SCHOOL DOUBLE SHIFT KOT ADU	218	72.98	6.41	218	72.97	8.39	218	75	7.03
		GOVT. ELEMENTARY SCHOOL SINAWAN	156	72.84	13.97	156	76.76	7.28	156	75.99	9.22
		GOVT. GIRLS HIGH SCHOOL KOT ADU	216	72.69	13.16	216	64.78	8.06	216	75.47	6.17
		GOVT. HIGH SCHOOL SINAWAN CENTRE NO.(II)	197	72.64	9.97	197	70.15	11.43	197	69.15	9.71
		GOVT ELEMENTARY SCHOOL CHAK NO 638 TDA	337	72.49	9.6	337	69.36	8.28	337	72.43	8.7
		GOVT HIGHER SCNDARY SCHOOL MEHMOOD KOT	243	71.73	7.34	243	75.73	8.41	243	76.91	8.24
		GOVT. ELEMANTRY SCHOOL DHARAM PUR	194	70.99	6.59	194	74.39	6.4	194	75.26	8.49

		GOVT.HIGHER SECONDARY SCHOOL GUJRAT CENTRE NO (I)	213	70.88	9.45	213	72.66	8.18	213	67.54	12.77
		GOVT. HIGH SCHOOL DAIRA DIN PANAH CENTRE NO.(II)	61	69.7	8.58	61	66.36	4.65	61	69.92	11.88
		GOVT. HIGH SCHOOL KOT ADU CENTRE NO.(I)	344	69.61	8.22	344	76.41	7.08	344	75.07	6.54
		GOVT. HIGH SCHOOL DAUNA	185	68.18	9.43	185	70.29	7.6	185	66.89	12.63
		GOVT. HIGH SCHOOL GURMANI CENTRE NO (II)	154	67.99	12.97	154	69.77	7.96	154	69.46	10.12
		GOVT. HIGH SCHOOL SHADI KHAN MUNDA	77	67.73	6.08	77	73.69	6.55	77	78.32	7.69
		GOVT. GIRLS HIGH SCHOOL MOCHI WALA CENTRE NO (I)	99	67.41	10.1	99	65.84	5.28	99	74.27	7.12
		GOVT. HIGH SCHOOL CHEENA	95	66.67	11.61	95	70.48	9.05	95	56.79	11.65
		GOVT. HIGH SCHOOL NO.01 KOT ADU(NEW CAMPUS) CENTRE	409	66.11	17.13	409	72.96	14.19	409	68.88	18.25
		GOVT ELEMENTARY SCHOOL CHAK NO 521 TDA	145	65.87	10.14	145	67.65	8.99	145	68.95	11.99
		GOVT. HIGHER SECONDARY SCHOOL CHOWK SARWAR SHAHEED	613	65.86	12.5	613	68.92	12.41	613	65.86	9.56
		GOVT. GIRLS ELEMANTRY SCHOOL CHAK NO.518 TDA	113	65.48	5.96	113	73.57	5.54	113	74.68	5.38
		GOVT. GIRLS HIGH SCHOOL GURMANI	83	65.3	7.87	83	70.88	5.55	83	62.73	10.1
		GOVT. GIRLS HIGH SCHOOL GUJRAT	81	65.26	7.11	81	65.75	5	81	65.14	7.77
		GOVT. HIGH SCHOOL IHSAN PUR	192	64.31	7.95	192	61.29	6.39	192	76.57	10.01
		GOVT.GIRLS ELEMENTARY SCHOOL DAYA CHOKHA	54	62.63	6.76	54	64.46	5.86	54	63.85	7
		GOVT. ELEMANTRY SCHOOL CHOWK SARWAR SHAHEED CENTRE	580	62.1	15.98	580	62.2	10.46	580	70.59	11.78
		GOVT. ELEMANTRY SCHOOL TIBBI NIZAM	78	61.88	11.81	78	56.97	13.91	78	67.17	9.47
		GOVT. GIRLS HIGHER SECONDARY SCHOOL CHOWK SARWAR S	140	59.21	8.82	140	59.6	9.21	140	61.76	11.27
		GOVT. ELEMANTRY SCHOOL DAIRA DIN PANAH	237	59.13	11.58	237	62.19	10.89	237	53.04	12.97
		GOVT. HIGH SCHOOL CHAK NO. 518 TDA -CENTRE NO (I)	82	58.78	8.89	82	67.5	11.91	82	66.24	12.94
		GOVT. HIGH SCHOOL DAIRA DIN PANAH CENTRE NO.(I)	194	58.49	9.56	194	63.18	9.85	194	69.43	9.55
		GOVT. HIGH SCHOOL FAIZ ABAD CHAK NO.550/TDA	57	58.26	9.97	57	60.12	6.63	57	58.47	9.33
		GOVT. GIRLS HIGH SCHOOL DAIRA DIN PANAH	197	57.6	10.36	197	70.56	8.67	197	60.49	9.16
		GOVT. HIGH SCHOOL GURMANI CENTRE NO (I)	82	56.89	10.33	82	65.88	10.58	82	58.62	11.19
		GOVT. HIGH SCHOOL SINAWAN CENTRE NO.(I)	164	55.6	12.45	164	60.91	11.29	164	62.01	10.85
		GOVT. ELEMENTARY SCHOOL KHAJJAR WALA	165	54.4	12.2	165	60.02	9.43	165	63.26	8.39
		GOVT. HIGH SCHOOL SHAIKH UMAR CENTRE NO.(II)	133	54.18	8.97	133	66.29	9.45	133	61.74	10.9
		GOVT. ELEMANTRY SCHOOL CHAK BODLA	274	50.76	2.98	274	74.64	6.14	274	74.98	4.73
		GOVT. HIGH SCHOOL RAKH THAL WALI	197	48.72	15.67	197	55.6	10.1	197	54.2	10.75
	Muzaffargarh	MISALI PUBLIC MIDDLE SCHOOL DIN PUR CENTER NO (I)	279	92.36	2.14	279	88.96	1.93	279	95.62	1.8
		GOVT. ELEMANTRY SCHOOL TALIRI	252	87.04	6.87	252	80.76	7.03	252	79.38	5.39
		MISALI PUBLIC MIDDLE SCHOOL DIN PUR CENTER NO (II)	248	86.63	2.99	248	84.18	2.23	248	87.39	3.89
		GOVT. GIRLS HIGH SCHOOL KHANGARH	112	85.19	6.41	112	79.34	4.47	112	87.17	5.67
		GOVT. HIGH SCHOOL KARAM DAD QUESHI CENTRE NO. (II)	296	84.03	3.76	296	72.02	5.26	296	82.3	5.46
		GOVT. HIGH SCHOOL BARHIM WALI	140	81.78	6.7	140	84.24	3.47	140	83.23	6.38
		GOVT. HIGH SCHOOL KHANGARH	153	81.67	4.95	153	78.77	6.13	153	86.22	4.17
		SARDAR KAUREY KHAN PUBLIC HIGH SCHOOL MUZAFFARGAR	227	81.06	4.97	227	77.92	5.63	227	83.69	5.58
		SHAKIR SCIENCE HIGHER SECONDARY SCHOOL PUL SHAMAS	187	80.85	6.43	187	86.88	5.05	187	88.63	4.24
		GOVT. ELEMENTARY SCHOOL THATHA QUERSHI	66	80.68	4.95	66	88.64	5.3	66	87.67	3.71

	GOVT. GIRLS ELEMANTRY SCHOOL BASTI DRIGH	72	79.76	7.34	72	79.99	6.34	72	71.43	9.37
	GOVT. HIGH SCHOOL UMAR PUR JANOABI	65	79.57	6.25	65	87.58	5.02	65	83.48	6.7
	GOVT. ELEMANTRY SCHOOL MODDLE KHANGARH CENTRE NO.(	325	79.11	6.41	325	71.64	6.88	325	78.77	4.63
	GOVT.HIGH SCHOOL KARAM DAD QURESHI CENTRE NO (III	290	78.44	5.16	290	76.07	6.34	290	80.47	7.57
	GOVT. HIGH SCHOOL ALODAY WALI	231	77.93	7.18	231	72.43	9.47	231	78.58	7.47
	GOVT. M.C. GIRLS HIGH SCHOOL MUZAFFARGARH	149	77.21	10.94	149	79.57	10.72	149	75.75	9.35
	GOVT. GIRLS HIGH & NORMAL SCHOOL MUZAFFARGARH CENT	290	76.32	6.32	290	71	6.19	290	74.09	7.32
	GOVT.ELEMENTARY SCHOOL MILLAT MUZAFFARGARH	155	76.23	10.32	155	86.32	8.08	155	83.19	9.58
	GOVT. HIGHER SECONDARY SCHOOL ROHILLAN WALI CENTRE	509	75.94	10.04	509	64.42	18.55	509	78.66	11.06
	GOVT. GIRLS HIGH SCHOOL BASIRA	308	75.72	9.38	308	79.67	9.2	308	74.03	8.31
	GOVT. HIGH SCHOOL BUDH	84	75.51	5.9	84	82.56	5.52	84	71.8	8.32
	GOVT. ELEMENTARY SCHOOL DIN PUR CENTER NO.(I)	133	75.24	4.79	133	85.32	6.51	133	77.65	8.43
	GOVT. HIGH SCHOOL BANGUL WALI	130	74.91	5.11	130	84.21	5.85	130	84.29	4.66
	GOVT. HIGH SCHOOL BASTI DRIGH	94	74.84	6.42	94	79.62	6.27	94	76.8	7.34
	GOVT. GIRLS ELEMANTARY SCHOOL KHANGARH	94	74.71	7.16	94	69.83	6.87	94	74.03	5.89
	GOVT. HIGH SCHOOL KARAM DAD QURESHI CENTRE NO. (I)	160	74.7	7.49	160	68.76	8.97	160	79.35	5.27
	GOVT.ELEMENTARY SCHOOL JERH RATHAIB	107	74.46	5.83	107	75.92	5.8	107	75.23	6.05
	GOVT. GIRLS HIGH SCHOOL KHURSHEED ABAD CENTRE NO (	409	74.04	7.3	409	68.48	7.64	409	66.95	9.32
	GOVT.ELEMENTARY SCHOOL CHOHR PUR	164	73.66	6.17	164	77.16	4.32	164	81.46	5.07
	GOVT. HIGH SCHOOL BASIRA	297	73.01	7.6	297	66.86	10.12	297	58.04	13.44
	GOVT.ELEMENTARY SCHOOL MEHAR PUR	196	72.88	8.92	196	73.63	5.37	196	71.09	7.13
	GOVT.HIGH SCHOOL MONDKA	88	72.85	4.92	88	74.5	5.04	88	81.66	5.14
	GOVT.ELEMENTARY SCHOOL BASTI MOND	84	72.26	5.07	84	72.74	3.96	84	78.25	5.37
	GOVT. ELEMANTRY COLLEGE MUZAFFARGARH	230	72.26	7.75	230	79.19	5.75	230	76.97	8.32
	GOVT. ELEMENTARY SCHOOL WASANDAY WALI	218	72.02	13.03	218	75.55	5.58	218	80.22	7.84
	GOVT. HIGH SCHOOL DEWALA	131	71.85	7.74	131	69.92	6.74	131	64.46	7.94
	GOVT.ELEMENTARY SCHOOL SONAKI	97	71.74	6.63	97	83.93	4.6	97	87.44	4.51
	GOVT. HIGH SCHOOL BASTI MAHARAN	332	71.61	7.63	332	71.74	9.15	332	78.44	7.15
	GOVT.ELEMENTARY SCHOOL FATEH MUHAMMAD AMBREND	63	71.24	9.47	63	71.67	4	63	71.56	6.96
	GOVT.ELEMENTARY SCHOOL NACHING	105	70.26	9.89	105	69.34	6.83	105	91.12	3.74
	GOVT. HIGH SCHOOL AMEER PUR KANAKA	217	69.21	10.32	217	73.06	6.74	217	67.88	7.8
	GOVT. HIGH SCHOOL MARHA	171	68.67	6.46	171	68.82	6.77	171	69.78	5.6
	GOVT. HIGH SCHOOL MUZAFFARGARH CENTRE NO.(I)	209	67.56	16.99	209	54.42	13.06	209	54.11	14.65
	GOVT. ELEMENTARY SCHOOL DIN PUR CENTER NO.(II)	50	67.28	11.8	50	71.18	13.07	50	68.4	11.49
	GOVT. HIGH SCHOOL TAL KOT CENTRE NO. (II)	264	66.2	12.52	264	62.02	11.62	264	70.91	10.69
	GOVT. HIGH SCEONDARY SCHOOL SHAH JAMAL CENTRE NO.(	260	66.07	9.43	260	70.18	5.04	260	62.48	9.2
	GOVT. GIRLS HIGH SCHOOL SHAH JAMAL	297	65.32	11.47	297	65.94	6.84	297	65.33	8.65
	GOVT. HIGH SCHOOL GULATI	217	63.96	10.06	217	72.69	7.61	217	59.41	11.5
	GOVT.COMP.HIGH SCHOOL MUZAFFARGARH	235	63.75	10.14	235	61.92	10.33	235	63.37	11.08
	GOVT. HIGH SCHOOL BHUTTA PUR	120	63.13	10.04	120	75.22	7.51	120	75.48	4.83

		GOVT. HIGH SCHOOL KHAN PUR SHUMALI	302	62.96	8.25	302	62.98	8.42	302	68.63	10.11
		GOVT. HIGH SCHOOL SHARIF CHHAJRA	323	62.87	11.6	323	74.03	7.71	323	61.21	11.27
		GOVT. ELEMENTARY SCHOOL MIRAN PUR	56	61.3	5.4	56	76.02	4.75	56	71.59	6.54
		GOVT. HIGH SCHOOL RANG PUR CENTRE NO.(II)	116	61.3	12.97	116	66.44	11.98	116	69.64	11.19
		GOVT. HIGH SCHOOL TAL KOT CENTRE NO. (I)	159	59.3	12.76	159	68.08	10.44	159	63.65	11.84
		GOVT. HIGH SCHOOL LANGAR SARAY	152	55.07	6.13	152	68.99	8.76	152	70.27	10.83
		GOVT. GIRLS HIGHER SECONDARY SCHOOL ROHILLAN WALI	192	51.23	11.63	192	68.02	9.2	192	61.81	11.8
		GOVT. HIGH SCHOOL MURAD ABAD	177	50.34	8.35	177	74.44	7.09	177	63.75	10.5
		GOVT. HIGH SCHOOL RANG PUR CENTRE NO.(I)	193	40.48	12.05	193	62.11	10.33	193	62.19	9.84

Table 5.4a

Center wise Analysis of District Pakpattan

District	Tehsil	Centers	Total Score			ENG			ISL			MATH		
			N	M	SD	N	M	SD	N	M	SD	N	M	SD
PakPattan	Arifwala	GES NO.1 ARIFWALA	266	403.19	53.41	266	65.54	16	266	81.21	6.41	266	61.48	16.99
		GHS ARIFWALA-2	212	357.41	67.7	212	63.27	17.39	212	76.12	8.5	212	51.48	17.2
		GES MC NO.2 ARIFWALA	201	354.43	69.07	201	55.6	18.43	201	78.82	7.36	201	48.54	15.39
		GGHS QABOOLA ARIFWALA	259	350.83	34.38	259	64.11	9.79	259	72.88	7.66	259	42.14	11
		GHS TIBBI LAL BAIG ARIFWALA	220	349.75	58.78	220	49.59	15.67	220	71.5	10.1	220	53.16	13.85
		GHS ARIFWALA-1	188	348.04	48.12	188	59.46	13.98	188	75.29	7.6	188	52.84	14.92
		GHSS QABOOLA ARIFWALA-2	89	347.99	59.82	89	47.62	17.68	89	74.26	6.7	89	47.46	17.78
		GHS KOT KHUDA BUKHSH ARIFWALA-2	237	342.27	66.01	237	51.66	17.36	237	73.21	9.15	237	43.77	16.34
		GGES 351/EB ARIFWALA	199	342.13	53.65	199	53.01	14.5	199	74.63	8.43	199	52.19	11.95
		GHS MC ARIFWALA-1	213	341.09	60.3	213	56.46	15.49	213	77	7.81	213	50.37	16.61
		GHS SHAKAR GUNJ ARIFWALA-1	221	340.24	60.23	221	52.88	18.86	221	76.14	6.9	221	51.36	15.33
		GHSS 127/EB ARIFWALA-1	222	339.41	39.19	222	51.1	12.37	222	73.27	6.48	222	42.86	13.86
		GHS MC ARIFWALA-2	251	335.84	70.14	251	53.4	18.3	251	76.6	8.38	251	50.27	15.96
		GES 67/EB ARIFWALA	156	335.21	44.87	156	41.17	12.28	156	75.2	7.68	156	48.74	11.65
		GGES MC M-BLOCK ARIFWALA	186	331.85	41.68	186	48.7	15.3	186	76.55	7.52	186	51.26	9.06
		GHSS QABOOLA ARIFWALA-1	248	331.43	37.04	248	45.21	11.64	248	73.42	6.95	248	53.75	10.94
		GHS 50/EB ARIFWALA	152	328.01	43.66	152	44.84	11.83	152	71.99	6.77	152	50.29	11.96
		GHS 91/EB ARIFWALA	149	327.7	39.6	149	51.19	14.41	149	69.3	7.26	149	37.99	10.27
		GGHS CHAK SHAFI ARIFWALA	229	325.34	56.64	229	49.17	17.12	229	69.16	7.72	229	42.67	11.07
		GHS 34/EB ARIFWALA	184	324.13	40.85	184	50.13	14	184	68.65	7.54	184	49.27	13.24
		GHS 157/EB ARIFWALA	135	317.49	49	135	54.02	16.83	135	72.51	7.66	135	44.5	11.75
		GGHS 149/EB ARIFWALA	182	316.87	46.25	182	45.34	12.47	182	76.96	7.5	182	45.59	11.78
		GHS 1/EB ARIFWALA-1	274	315.68	45.55	274	39.77	12.23	274	76.46	6.58	274	42.15	12.6
		GES 149/EB ARIFWALA	198	309.69	55.69	198	43.96	14.2	198	68.93	9.1	198	42.05	12.98
		GGES 109/EB ARIFWALA	254	305.88	34.35	254	52.72	8.74	254	76.65	7.85	254	35.85	8.42
		GES 109/EB ARIFWALA	207	305.14	55.87	207	48.1	18.32	207	65.79	7.85	207	41.34	13.68
		GHS KOT KHUDA BUKHSH ARIFWALA-1	203	301.61	64.75	203	48.58	16.64	203	68.63	9.67	203	35.65	14.75
		GGHS MC ARIFWALA	507	301	57.92	507	44.07	15.27	507	75.03	8.04	507	39.8	11.83
		GGHS CITY ARIFWALA	215	296.77	44.56	215	50.47	11.46	215	49.89	5.51	215	45.06	12.31
		GHS 163/EB ARIFWALA	116	287.33	57.42	116	36.53	17.52	116	68.75	8.1	116	39.47	12.39
		GHS 351/EB ARIFWALA	136	285.14	38.55	136	33.45	11.33	136	63.61	7.16	136	43.77	10.27
		GHS 66/EB ARIFWALA	193	264.57	41.98	193	30.2	11.57	193	64.85	8.96	193	39.06	8.69
	PakPattan	GES 37/SP PAKPATTAN	137	434.61	27.73	137	71.99	8.34	137	83.62	5.16	137	73.11	7.41
		GHS PAKPATTAN-2	298	418.47	70.82	298	64.49	18.47	298	80.27	8.82	298	59.62	18.43

	GES MC DARGHAH BAZAR PAKPATTAN	239	411.18	57.91	239	66.76	15.26	239	85.33	6.16	239	60.6	14.53
	GHS BASTI SAKHI GHULAM QADIR PAKPATTAN-1	154	402.62	57.03	154	71.03	14.01	154	77.99	9.35	154	56.14	16.29
	GHS KALYANA PAKPATTAN-1	160	390.44	31.74	160	62.57	7.83	160	76.1	5.88	160	58.43	12.95
	GES MALKA HANS PAKPATTAN	193	386.27	47.87	193	69	11.42	193	79.75	6.4	193	58.61	18.87
	GHS FAZILKA ISLAMIA PAKPATTAN-1	275	378.68	76.57	275	64.06	15.93	275	81.13	8.93	275	55.16	17.53
	GHS HOTTA PAKPATTAN-1	208	377.14	65.57	208	54.14	15.7	208	76.12	6.85	208	56.33	19.17
	GHS 29/SP PAKPATTAN-2	30	373.6	42.48	30	62.13	11.25	30	76.6	6.24	30	48.3	10.35
	GHS KUMHARI WALA PAKPATTAN	241	371.07	45.94	241	60.19	12.29	241	81.06	5.7	241	49.53	14.44
	GHS FAZILKA ISLAMIA PAKPATTAN-2	212	369.03	56.92	212	58.33	11.27	212	77.74	7.61	212	55.53	17.72
	GES KARAM PUR BHATTIAN PAKPATTAN	96	368.55	45.07	96	58.84	12.26	96	78.84	6.68	96	46.81	12.09
	GES COLONY AREA PAKPATTAN-1	253	368.37	62.53	253	62.19	16.4	253	77.21	8.38	253	55.45	16.2
	GES MC GHALLA MANDI PAKPATTAN	276	363.09	70.31	276	61.23	18.84	276	81.71	8.79	276	50.9	16.89
	GHSS MALKA HANS PAKPATTAN	191	361.28	61.81	191	58.07	17.63	191	73.58	8.7	191	54.09	16.74
	GHS NOOR PUR PAKPATTAN-2	114	360.65	55.97	114	62.96	10.85	114	76.53	8.2	114	48.51	14.28
	GHS FERAZ PUR CHISHTIAN PAKPATTAN	118	359.81	47.66	118	61.54	12.74	118	69.04	11.47	118	48.58	13.29
	GGHSS MALKA HANS PAKPATTAN	119	358	52.67	119	54.74	12.01	119	70.78	8.95	119	56.27	14.82
	GHS 70/D PAKPATTAN	151	353.13	41.69	151	61.68	11.92	151	72.66	6.83	151	52.32	13.26
	GES BAIL GUNJ PAKPATTAN	123	352.66	38.5	123	50.53	11.87	123	70.25	10.66	123	52.59	13.17
	GHS URBAN AREA PAKPATTAN-1	287	352.38	71.21	287	52.91	19.02	287	78.77	8.41	287	52.78	15.41
	GES 19/SP PAKPATTAN	145	348.01	76.74	145	60.68	18.39	145	75.91	8.17	145	56.67	17.39
	GHS URBAN AREA PAKPATTAN-2	204	346.69	59.06	204	58.58	15.7	204	76.6	8.23	204	46.58	14.46
	GGHS CHAK BEDI PAKPATTAN	209	346.28	50.36	209	60.5	14.72	209	70.41	9.65	209	45.52	13.04
	GES MC DARGAH BAZAR PAKPATTAN-2	230	343.19	46.28	230	47.37	13.11	230	77.25	9.48	230	44.13	11.35
	GES 60/D PAKPATTAN	275	342.46	50.95	275	55.02	14.76	275	63.19	9.6	275	51.34	14.45
	GGHS COLONY AREA PAKPATTAN-1	223	342.18	43.95	223	48.32	15.48	223	79.19	7.96	223	49.31	9.41
	GGHS CITY PAKPATTAN	289	340.99	56.76	289	55.44	17.58	289	78.56	7.88	289	44.29	11.74
	GHS 83/D PAKPATTAN-1	153	333.56	46.3	153	44.4	13.79	153	70.72	6.9	153	49.27	10.65
	GHS PAKPATTAN-1	280	332.96	50.25	280	59.36	15.77	280	77	7.35	280	44.68	15.34
	GES FARID KOT PAKPATTAN	210	329.64	49.74	210	46.2	14.08	210	70.88	6.89	210	43.49	12.01
	GHS NOOR PUR PAKPATTAN-1	183	325.71	40.3	183	50.05	9.29	183	68.75	8.7	183	48.04	13.22
	GHS CHAK AZMAT PAKPATTAN-1	183	325.64	52.1	183	49.73	12.47	183	68	10.06	183	44.57	13.01
	GHS PIR GHANI PAKPATTAN	158	324.27	43.14	158	45.03	12.32	158	74.39	7.61	158	49.58	11.02
	GHS 29/SP PAKPATTAN	213	322.42	55.71	213	48.16	15.35	213	70.6	8.23	213	47.58	14.37
	GHS 96/D PAKPATTAN	102	315.7	37.17	102	42.59	10.1	102	68.31	9.32	102	45.92	11.61
	GHS SANDY KHAN	100	314.83	36.12	100	50.08	13.64	100	67.68	6.92	100	42.2	10.5
	GES BUNGA HAYYAT PAKPATTAN	166	314.51	35.97	166	55.48	12.37	166	70.4	7.04	166	41.9	12.96
	GHS CHAK BEDI PAKPATTAN	253	310.33	48.58	253	42.59	15.84	253	70.84	7.57	253	45.76	13.45
	GES 23/SP PAKPATTAN-1	238	309.08	60.94	238	53.47	19.37	238	64.8	11.67	238	45.63	15.02

Table 5.4b

Center wise Analysis of District PakPattan

District	Tehsil	Centers	SCI			SOC			URDU		
			N	M	SD	N	M	SD	N	M	SD
PakPattan	Arifwala	GES NO.1 ARIFWALA	266	61.2	14.34	266	65.37	9.05	266	68.39	11.85
		GHS 91/EB ARIFWALA	149	53.9	9.03	149	54.76	8.27	149	60.56	8.73
		GES MC NO.2 ARIFWALA	201	52.86	14.93	201	59.18	13.53	201	59.43	14.93
		GHS ARIFWALA-1	188	51.93	13.11	188	46.06	12.61	188	62.46	7.76
		GGES 351/EB ARIFWALA	199	51.53	10.52	199	50.33	11.81	199	60.45	9.68
		GHS TIBBI LAL BAIG ARIFWALA	220	51.41	13.55	220	56.26	11.3	220	67.83	10.03
		GES 67/EB ARIFWALA	156	51.24	10.88	156	54.12	11.29	156	64.74	9.77
		GHS SHAKAR GUNJ ARIFWALA-1	221	50.85	12.74	221	51.99	10.98	221	57.02	11.62
		GHSS QABOOLA ARIFWALA-2	89	50.57	15.15	89	61.8	9.73	89	66.28	8.91
		GHS ARIFWALA-2	212	50.01	14.92	212	51.11	11.96	212	65.42	10.42
		GHS KOT KHUDA BUKHSH ARIFWALA-2	237	49.87	14.05	237	59.43	11.42	237	64.34	11.28
		GGHS QABOOLA ARIFWALA	259	48.68	10.03	259	55.18	11.56	259	67.84	6.79
		GHSS 127/EB ARIFWALA-1	222	48.4	10.38	222	57.49	10.97	222	66.29	7.34
		GHS 50/EB ARIFWALA	152	48.16	10.05	152	52.16	9.88	152	60.57	7.91
		GHS 34/EB ARIFWALA	184	46.98	9.49	184	52.81	7.55	184	56.29	9.26
		GGHS CHAK SHAFI ARIFWALA	229	46.96	11.25	229	54.86	12.45	229	62.52	9.57
		GGES MC M-BLOCK ARIFWALA	186	46.45	11.63	186	46.7	10.38	186	62.19	7.48
		GHS 1/EB ARIFWALA-1	274	44.94	11.57	274	53.58	11.52	274	58.77	8.62
		GES 149/EB ARIFWALA	198	44.31	12.7	198	51.69	11.35	198	58.76	9.88
		GHS MC ARIFWALA-2	251	43.96	13.61	251	53.22	13.11	251	58.39	13.48
		GGHS CITY ARIFWALA	215	43.76	11.7	215	46.97	11.08	215	60.63	8.18
		GGHS 149/EB ARIFWALA	182	43.51	9.72	182	44.98	11.25	182	60.49	7.64
		GHS 351/EB ARIFWALA	136	43.38	9.87	136	47.54	9.49	136	53.38	11.4
		GHS 163/EB ARIFWALA	116	42.95	11.66	116	42.34	12.48	116	57.29	10.51
		GGES 109/EB ARIFWALA	254	42.91	7.82	254	43.31	11.5	254	54.44	7.71
		GHS 157/EB ARIFWALA	135	42.87	10.28	135	47.77	11.43	135	55.81	8.98
		GES 109/EB ARIFWALA	207	41.42	11.13	207	51.57	11.78	207	56.92	12.51
		GHS 66/EB ARIFWALA	193	41	9.07	193	43.21	10.41	193	46.25	10.19
		GHS KOT KHUDA BUKHSH ARIFWALA-1	203	39.49	14.52	203	50.98	14.06	203	58.29	12.42
		GHSS QABOOLA ARIFWALA-1	248	38.84	10.84	248	58.89	7.87	248	61.31	9.75
		GHS MC ARIFWALA-1	213	37.53	13.63	213	61.75	11.95	213	57.99	9.91
		GGHS MC ARIFWALA	507	35	12.87	507	50.77	11.85	507	56.32	11.58
	PakPattan	GHS PAKPATTAN-2	298	70.95	13.45	298	70.19	12.03	298	72.95	11.65
		GES 37/SP PAKPATTAN	137	66	5.79	137	67.26	6.17	137	72.64	8.9

	GHS BASTI SAKHI GHULAM QADIR PAKPATTAN-1	154	63.06	11.45	154	69.12	11.78	154	65.28	10.05
	GHS KALYANA PAKPATTAN-1	160	62.12	6.32	160	62.36	6.09	160	68.87	7.76
	GES MC DARGHAH BAZAR PAKPATTAN	239	61.1	13.53	239	67.01	11.3	239	70.38	12.1
	GHS FAZILKA ISLAMIA PAKPATTAN-1	275	57.8	17.53	275	55.87	15.1	275	64.67	14.2
	GHS FEROUZ PUR CHISHTIAN PAKPATTAN	118	57.04	7.82	118	62.38	12.33	118	61.21	9.56
	GHS 29/SP PAKPATTAN-2	30	56.63	11.43	30	63.53	9.92	30	66.4	7.11
	GES KARAM PUR BHATTIAN PAKPATTAN	96	55.81	11.38	96	63.17	9.29	96	65.07	10.59
	GHS HOTTA PAKPATTAN-1	208	55.04	14.26	208	68.86	11.11	208	66.66	10.34
	GHS FAZILKA ISLAMIA PAKPATTAN-2	212	54.69	13.39	212	57.46	9.76	212	65.28	10.77
	GHS KUMHARI WALA PAKPATTAN	241	53.46	13.03	241	64.95	8.85	241	61.88	9.5
	GES MC DARGAH BAZAR PAKPATTAN-2	230	53	8.82	230	57.15	10.46	230	64.29	10.1
	GES COLONY AREA PAKPATTAN-1	253	52.81	13.17	253	60.83	11.06	253	59.89	13.34
	GES FARID KOT PAKPATTAN	210	52.37	9.95	210	57.47	10.98	210	59.24	11.33
	GES BAIL GUNJ PAKPATTAN	123	51.99	8.55	123	61.08	7.53	123	66.22	7.75
	GHS 83/D PAKPATTAN-1	153	51.95	9	153	57.2	9.62	153	60.02	9.39
	GGHS CHAK BEDI PAKPATTAN	209	51.33	12.89	209	60.89	7.81	209	57.64	9.96
	GES MALKA HANS PAKPATTAN	193	50.57	11.79	193	58.61	10.81	193	69.74	11.54
	GES MC GHALLA MANDI PAKPATTAN	276	49.84	14.89	276	58.62	11.23	276	60.79	13.78
	GHS NOOR PUR PAKPATTAN-2	114	49.77	13.09	114	62.06	12.27	114	60.82	10.39
	GHS CHAK AZMAT PAKPATTAN-1	183	49.15	10.72	183	54.22	12.55	183	59.97	9.8
	GHS URBAN AREA PAKPATTAN-1	287	49.03	15.77	287	58.06	12.7	287	60.83	13.07
	GHSS MALKA HANS PAKPATTAN	191	48.65	12.23	191	63.14	12.27	191	63.76	9.71
	GES 19/SP PAKPATTAN	145	47.49	17.77	145	47.34	12.65	145	59.92	17.83
	GES 60/D PAKPATTAN	275	47.47	10.33	275	64.15	11.82	275	61.28	8.86
	GHS URBAN AREA PAKPATTAN-2	204	47.31	14.63	204	55.36	10.98	204	62.27	11.03
	GHS 70/D PAKPATTAN	151	47.25	9.74	151	56.19	9.7	151	63.04	9.12
	GHS NOOR PUR PAKPATTAN-1	183	47.04	11.13	183	55.49	9.47	183	56.33	7.42
	GHS 96/D PAKPATTAN	102	46.4	9.98	102	55.15	9.2	102	57.32	10.52
	GHS 29/SP PAKPATTAN	213	45.61	12.74	213	48.49	12.01	213	61.97	9.41
	GGHS COLONY AREA PAKPATTAN-1	223	45.55	13.05	223	54.63	10.19	223	65.17	8.33
	GGHS MALKA HANS PAKPATTAN	119	45.4	15.7	119	57.71	10.29	119	73.1	8.16
	GES BUNGA HAYYAT PAKPATTAN	166	44.58	9.02	166	51.81	7.5	166	50.34	7.27
	GES 23/SP PAKPATTAN-1	238	44.34	12	238	51.29	13.69	238	49.55	12.66
	GGHS CITY PAKPATTAN	289	41.9	12.07	289	63.51	11.88	289	57.29	10.67
	GHS PAKPATTAN-1	280	41.36	16.41	280	54.31	8.43	280	56.25	10.94
	GHS PIR GHANI PAKPATTAN	158	40.69	8.97	158	55.49	10.84	158	59.09	9.43
	GHS SANDY KHAN	100	40.66	8.56	100	49.84	10.41	100	64.37	7.45
	GHS CHAK BEDI PAKPATTAN	253	38.85	13.59	253	56.63	9.49	253	55.66	10.01

Table 5.5a

Center wise Analysis of District Rajanpur

District	Tehsil	Centers	Total Score			ENG			ISL			MATH		
			N	M	SD	N	M	SD	N	M	SD	N	M	SD
Rajanpur	Jampur	GOVT. CITY HIGH SCHOOL JAMPUR	312	421.45	38.8	312	76.01	9.47	312	83.27	5.03	312	67.22	8.85
		GHS JAMPUR (I)	377	413.56	27.42	377	70.21	9.12	377	82.71	5.11	377	61.88	10.57
		GGHS NO.1 JAMPUR	355	408.9	51.23	355	70.65	10.83	355	80.72	6.31	355	54.64	15.64
		GHS RASOOLPUR (II)	202	401.43	31.54	202	74.2	8.22	202	81.68	4.86	202	52.13	9.34
		GES NO. 1 JAMPUR	231	400.32	58.79	231	76.54	11.71	231	79.68	8.39	231	61.14	15.67
		GGHS NO.2 JAMPUR (II)	216	398.63	46.39	216	67.78	11.35	216	83.63	5.49	216	53.23	10.9
		GHS HARRADN	122	389.1	29.74	122	74.16	10.11	122	74.54	5.43	122	57.92	9.95
		GGHS NO.2 JAMPUR	215	387.89	45.15	215	67.61	11.65	215	81.15	5.25	215	60.36	12.26
		GHS MUHAMAD PUR (II)	143	385.83	40.22	143	72.33	11.55	143	80.64	7.31	143	54.43	14.57
		GGHS MUHAMMAD PUR	187	383.82	36.09	187	68.64	8.13	187	82.33	6.08	187	46.57	12.24
		GHS JAMPUR (II)	320	382.75	63.19	320	62.72	15.4	320	78.71	8.88	320	47.2	14.94
		GES TALAI WALA	218	376.21	36.95	218	60.34	11.08	218	74.19	7.21	218	49.58	11.36
		GGHSS DAJAL	222	376.09	43.72	222	60.26	11.59	222	79.42	5.15	222	51.24	14.34
		GHS HAJI PUR	345	375.99	32.15	345	49.54	16.03	345	83.9	6.62	345	59.34	9.57
		GHS RASOOL PUR	214	372.34	32.02	214	66.76	9.36	214	80.06	5.8	214	51.25	9.29
		GHS MUHAMMAD PUR	242	362.29	39.89	242	69.4	12.76	242	72.52	8.2	242	49.23	12.84
		GHS KOTLA MUGHLAN	349	339.3	57.61	349	54.75	14.02	349	79.42	7.4	349	44.92	13.28
		GHSS DAJAL (II)	239	324.45	48.84	239	47.03	15.22	239	73.15	7.79	239	39.88	9.44
		GHSS DAJAL (I)	239	322.27	43.75	239	51.89	15.51	239	73.05	6.75	239	37.46	10.11
		GHSS DAJAL	7	286.29	14.47	7	50.43	11.24	7	69.71	3.99	7	30.29	3.59
	Rajanpur	GHS SIKHANI WALA	384	401.35	38.02	384	75.69	9.97	384	79.07	8.16	384	56.14	10.06
		GHS BANGLA ICHHA	74	398.01	31.07	74	49.7	13.04	74	73.27	8.39	74	75.04	5.05
		GHS NO.1 RAJANPUR (I)	288	396.86	34.82	288	68.48	9.98	288	78.2	6.79	288	57.45	12.55
		GHS UMER KOT	189	395.35	34.41	189	64.54	11.62	189	79.25	6.64	189	52.04	8.67
		GGHSS MITHAN KOT	252	394.26	41.42	252	68.5	9.68	252	77.7	8.05	252	52.41	10.95
		GHS KOTLA NASEER	162	391.11	49.12	162	70.94	11.21	162	73.17	8.39	162	60.77	11.53
		GHSS MITHAN KOT (II)	174	390.52	44.52	174	73.91	9.22	174	77.56	6.66	174	47.12	14.03
		GHS MURGHAI	175	390.37	36.89	175	66.33	11.18	175	78.24	5.04	175	48.63	10.86
		GHS ROJHAN	354	390.09	28.8	354	68.97	9.04	354	79.37	6.36	354	58.47	8.85
		GHS NO.2 RAJANPUR	291	388.04	43.11	291	69.63	11.4	291	81.15	5.89	291	57.42	13.11
		GHS SHIKAR PUR	194	387.85	37.35	194	73.21	9.14	194	77.32	5.45	194	50.93	12.63
		GHSS FAZILPUR (II)	340	381.17	52.52	340	61.12	17.04	340	85.3	6.98	340	57.73	14.66
		GGHS NO.1 RAJANPUR	376	379.18	53.13	376	51.59	17.72	376	84.91	7.01	376	60.53	14.04
		GGHSS FAZILPUR	284	372.14	42.22	284	62.41	14.37	284	82.58	7.51	284	49.52	12.98

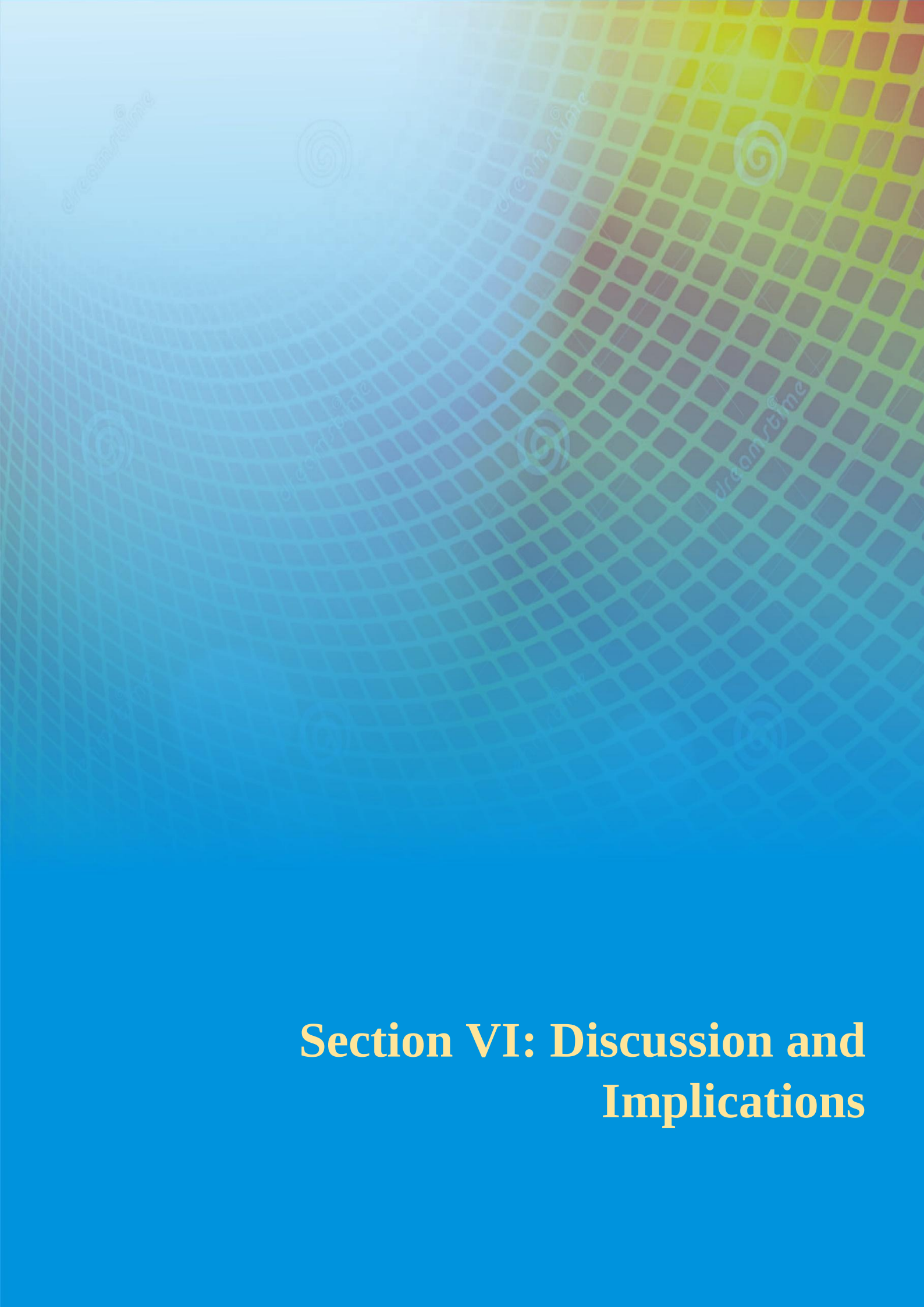
		GHSS MITHAN KOT	217	368.89	61.73	217	57.48	16.84	217	77.92	7.03	217	55.68	18.37
		GGHS CANAL COLONY RAJANPUR	250	348.06	49.93	250	58.11	15.92	250	83.28	6.09	250	42.29	11.44
		GHSS FAZILPUR (I)	350	324.97	51.37	350	46.21	19.05	350	80.11	8.56	350	45.33	12.03
		GHS NO.1 RAJANPUR (II)	243	319.09	65.19	243	49.03	18.7	243	80.23	8.76	243	44.46	13.52

Table 5.5b

Center wise Analysis of District Rajanpur

District	Tehsil	Centers	SCI			SOC			URDU		
			N	M	SD	N	M	SD	N	M	SD
Rajanpur	Jampur	GHS RASOOLPUR (II)	202	64.43	8.32	202	64.96	6.09	202	64.03	7.08
		GGHSS DAJAL	222	62.97	11.14	222	59.95	9.49	222	62.26	8.28
		GGHS NO.1 JAMPUR	355	62.35	12.9	355	65.05	10.79	355	75.5	7.57
		GHSS DAJAL	7	62	7.72	7	37.43	5.16	7	36.43	4.54
		GHS HAJI PUR	345	60.64	7.35	345	60.86	7.27	345	61.71	8.17
		GES TALAI WALA	218	60.26	10.45	218	63.27	9.46	218	68.56	10.01
		GGHS NO.2 JAMPUR (II)	216	60.16	11.06	216	62.69	11.53	216	71.14	10.04
		GOVT. CITY HIGH SCHOOL JAMPUR	312	59.55	10.44	312	67.92	9.89	312	67.47	9.92
		GHS HARRADN	122	58.18	8.23	122	59.57	9.61	122	64.74	8.43
		GHS JAMPUR (I)	377	57.87	8.17	377	69.46	7.45	377	71.43	9.88
		GHS JAMPUR (II)	320	57.37	13.26	320	72.6	13.05	320	64.15	13.18
		GHS RASOOL PUR	214	55.85	6.74	214	56.17	10.43	214	62.26	7.67
		GGHS MUHAMMAD PUR	187	53.94	11.9	187	67.16	7.73	187	65.19	7.24
		GES NO. 1 JAMPUR	231	53.67	14.93	231	63.93	14.12	231	65.35	12.39
		GHS MUHAMAD PUR (II)	143	52.97	11.52	143	62.17	7.03	143	63.29	9.05
		GHS MUHAMMAD PUR	242	51.43	9.65	242	56.82	9.69	242	62.88	10.06
		GHSS DAJAL (II)	239	50.51	13.84	239	60.08	13.12	239	53.8	9.55
		GHSS DAJAL (I)	239	50.4	9.98	239	56.93	11.71	239	52.53	10.9
		GGHS NO.2 JAMPUR	215	50.2	13.45	215	54.72	13.31	215	73.84	7.14
		GHS KOTLA MUGHLAN	349	48.48	12.25	349	55.95	13.77	349	55.79	11.6
	Rajanpur	GHS KOTLA NASEER	162	65.8	9.95	162	64.9	12.74	162	55.53	13.62
		GGHSS MITHAN KOT	252	65.38	10.94	252	58.22	12.02	252	72.05	8.52
		GHS NO.1 RAJANPUR (I)	288	61.43	7.51	288	64.97	7.94	288	66.34	8.99
		GHSS FAZILPUR (II)	340	61.16	11.41	340	49.1	13.46	340	66.75	8.47
		GHS BANGLA ICHHA	74	60.92	7.66	74	72.88	7.43	74	66.2	10.68
		GHS NO.2 RAJANPUR	291	59.75	10.03	291	61.19	10.95	291	58.91	11.11
		GHS UMER KOT	189	59.08	8.95	189	66.33	9.32	189	74.1	12.34
		GHSS MITHAN KOT (II)	174	58.18	12.75	174	65.83	9.59	174	67.92	8.77

District	Tehsil	Centers	SCI			SOC			URDU		
			N	M	SD	N	M	SD	N	M	SD
		GHS SHIKAR PUR	194	57.23	7.89	194	59.12	8.83	194	70.04	9.32
		GHS SIKHANI WALA	384	55.8	9.72	384	66.58	8.39	384	68.08	11.59
		GHS MURGHAI	175	55.5	10.04	175	73.93	7.85	175	67.74	8.01
		GHSS MITHAN KOT	217	55.46	14.08	217	56.2	10.63	217	66.15	11.28
		GHS ROJHAN	354	53.84	6.59	354	66.97	8.11	354	62.46	10.21
		GGHS NO.1 RAJANPUR	376	53.27	12.96	376	61.12	9.82	376	67.77	9.87
		GGHSS FAZILPUR	284	53.08	9.78	284	61.77	7.23	284	62.78	6.69
		GHSS FAZILPUR (I)	350	52.88	11.77	350	50.4	12.37	350	50.03	10.6
		GGHS CANAL COLONY RAJANPUR	250	50.29	11.24	250	50.41	12.6	250	63.68	8.56
		GHS NO.1 RAJANPUR (II)	243	45.28	15.62	243	46.83	12.18	243	53.27	13.91



Section VI: Discussion and Implications

The analysis of results of Grade 8 students across Punjab and in 36 districts has challenged number of myths that prevail in academia, teachers, parents, administrative staff and public in general. The variation in results provided a rich source of evidence based information for understanding and appreciating the relative contribution of individual differences, output related differences despite efforts to ensure uniform inputs for creating equality of opportunities for all learners across province.

6.1 Decentralization of In-service Teacher Training

The students from districts perceived as developed (Lahore, Bahawalpur, Faisalabad, Gujarat, Jehlum and Rawalpindi ranked in last 50%) having better resourced schools, teachers and instructional opportunities lagged behind students from districts having opposite (Muzaffargrah, D.G Khan, Jhang, Rajanpur, and Lodhran rank among top 50%) perception. A similar pattern is visible in tehsil level analysis i.e. high performing tehsils in low performing districts and vice versa. This uneven and unexpected result pattern strengthens the thought about decentralization of training activities at district, if not tehsil level with considerable freedom to district level management in deciding the focus areas, selection of resource persons, adapting the training material, customizing the training timing, and administration of trainings as it suits to the needs of the community of teachers. The devolution of power at tehsil level at least at the stage of deciding activities for school and professional development of teachers and head teachers needs to be responsive to their contextualized needs.

6.2 What Counts in Improving Learning: A balance in investment on physical facilities and teacher development?

The students from rural and urban area schools performed almost similar in most of the subjects. There are minor differences in performance in some subjects sometimes in favor of urban and sometime in favor of rural students. This performance pattern leads us to rethink the factors actually contributive to the improvement in student learning. The provision of basic facilities in school related to physical infrastructure like building, furniture, sanitation etc. are of importance but it may be the quality of teacher, leadership, attitude towards students etc. which is fundamental to improvement in learning. A negligible difference in performance of

students from schools having dilapidated building, no furniture, electricity and sanitation from students in relatively better schools in above stated aspects lead us to re-prioritize public spending on education or at least re-think the proportional spending on infrastructure and investment in development of teachers and head teachers.

6.3 Private School students performing better than Students in Public Schools

There is evidence that private school students are performing better than public school students (Table 2.1). This difference in performance can be attributed partially to the following factors as per analysis in this report. Firstly, the difference can be attributed partially to relatively larger proportion of girl enrollment in private schools. The girls generally performed better than boys irrespective the type of school, therefore larger number of girl enrollment in private schools (Table 1.1) inflated the performance difference in private and public schools in favor of private schools. Secondly, it is worth considering that it is not mandatory for private school students to appear in PEC examination (in contrast to public school students). Relatively better private schools are chosen to make their student appear in PEC examination which might be a factor in better result from private school students. Finally, private schools allow only high performing students to take part in PEC examination in contrast to every student from public school mandatorily taking PEC examination possibly widen the performance gap between private school students and public school students.

6.4 Are English Medium Really English Medium?

Another interesting finding is that students in receiving instruction in English performed better than students receiving instruction in Urdu. There may be two reason behind this unusual finding i.e. firstly, government decision to convert all schools into English medium merely required schools to change the label without actually changing the medium of instruction and secondly, because of the better market value most of the private school proclaim to be English medium and relatively intellectually capable students are sent to these schools by the parents. The students performed better not because of the school being English medium but because of intellectual edge.

6.5 How Valid are our Examination?

Punjab Examination Commission (PEC) is quite new organization as compared to other similar examination bodies in the country and abroad. PEC is conducting examination of over 2 million students on yearly basis with very limited full time human resource at its disposal. The analysis of test versions revealed the non-equivalence of test forms which might have generated unsystematic measurement error in the scores of the students. This indicates need for a planning a time line for test development i.e. item banking, SLO vs. content specification, item selection, paneling, pilot testing with reasonable sample, determination of item difficulty and item discrimination using CTT/IRT, selection of items for different test versions well before the conduct of examination. A team of subject and test development experts from within PEC (full time staff) is needed for this process.

The issues regarding data entry are mentioned in methodological problem section of this report. The data entry of results and background information of each candidate is a huge task and involves several million entries to be carried out at different entry desks simultaneously. The occurrence of error is somewhat obvious but it is expected to have a strong data cleaning mechanism in place to increase trust in the data and subsequent analysis and inferences drawn on the basis of data. These inferences are fed into the policy and planning for educational development in school system. The data related to students' scores was found accurate to large extent but background data had considerable number of missing data and inconsistent entries. For example there were a large number of school names showing schools as public but they were coded as private school.

6.6 Which Content Areas Need Attention (by subject)?

When the performance of students was analyzed by chapters (in science and mathematics) or content areas (in Islamiyat, Urdu and English) it is identified¹ that there are several chapters and/or content areas in which student need support across the province. This implies more focus on content training of teachers in identified content areas during in-service training. This has clear implication for DSD and Pre-service training providers included in the identified areas in their course or if they

¹ The detail of content areas/chapters already pointed out in section III, sub-section 3.4 (tables 3.4a to table 3.9b)

have already included these areas in their training, revision of instructional techniques and curricular material is required.

The results have also shown content areas specifically need to be focused in certain districts. This links back to earlier discussion on decentralization of training activities at district level and in each district the focus should be on their specific needs.

It is also noticed that some content areas are neglected in certain test version. There is a need to make a conscious effort to include items proportionately from each content area and keep the selection of content areas uniform across the test versions. PEC needs to address such issues to enhance the credibility of the examination and subsequent use of data.

In conclusion, the findings suggest one size does not fit for all. There is a need for tailored solution to contextualized problem, usually embedded in the community spurred out of localized factors. These factors included, language of instruction, locale, gender of students, student background, teacher training etc.

Annexures

Annexure 1

Table A1

Overall performance of Grade 8 students by subject in Punjab

	N	Mean	SD
Mathematics	10,41,246	50.36	17.32
English	10,41,246	55.67	17.80
Urdu	10,41,246	59.93	13.15
Islamiat	10,41,246	73.12	10.95
Social Studies	10,41,246	55.34	14.16
Science	10,41,246	50.52	15.58

Annexure 2

Table A2

Details of pass percentage of students distributed over type of school, Gender, locale and medium of instruction.

School	Gender	Locale	Medium of Instruction	N	Math	English	Urdu	Islamiat	Social Studies	Science
Private	Boys	Urban	English	34,992	88.83	96.53	98.70	99.73	92.40	88.51
			Urdu	58,610	76.67	82.87	95.96	99.71	90.99	82.63
		Rural	English	11,064	87.43	95.71	98.36	99.60	93.91	87.60
			Urdu	84,192	81.89	86.37	96.31	99.82	94.06	86.39
	Girls	Urban	English	28,511	92.29	98.17	99.45	99.80	94.81	93.45
			Urdu	59,871	79.48	85.92	98.09	99.79	92.37	84.99
		Rural	English	7,833	89.90	96.87	99.34	99.83	95.08	91.27
			Urdu	85,046	81.27	87.28	98.09	99.84	94.00	86.61
Public	Boys	Urban	English	39,571	79.87	89.25	97.12	99.90	93.23	73.39
			Urdu	75,012	80.45	84.49	95.95	99.76	91.56	83.60
		Rural	English	9,503	83.57	90.65	95.92	99.87	94.01	79.39
			Urdu	2,25,196	82.62	87.81	96.00	99.86	93.42	86.37
	Girls	Urban	English	36,177	83.06	91.06	99.37	99.93	95.64	75.61
			Urdu	72,739	83.24	86.86	98.96	99.92	93.87	87.90
		Rural	English	7,120	77.65	86.42	97.95	99.90	94.26	69.59
			Urdu	1,55,491	84.06	87.29	98.62	99.92	94.99	89.79

Annexure 3

Table A3

Subject wise Mean Score of Students in Grade 8 Examination 2012 on the basis of demographics

School	Gender	Locale	Medium	N	Total		Math		English		Urdu		Islamiat		Social Studies		Science	
					M	SD	M	SD	M	SD	M	SD	M	SD	M	SD	M	SD
Private	Boys	Urban	English	3190	304.94	67.06	43.19	16.09	51.59	17.68	53.79	12.92	67.80	11.65	47.79	13.88	40.77	15.73
			Urdu	6685	288.04	63.52	40.67	15.33	43.77	16.93	50.69	13.12	65.39	11.60	46.43	14.04	41.08	13.96
		Rural	English	834	311.28	65.97	45.12	16.72	51.80	16.66	53.67	13.42	68.45	11.42	49.54	14.45	42.69	15.36
			Urdu	14216	300.19	64.64	42.86	16.15	47.08	17.61	51.59	13.43	66.68	11.21	48.90	13.96	43.07	13.90
	Girls	Urban	English	2207	320.97	64.07	44.58	15.26	53.28	16.67	58.51	11.72	72.46	11.18	49.69	13.01	42.44	15.50
			Urdu	5821	303.44	63.47	42.00	15.13	44.89	16.00	55.26	12.19	70.03	11.48	47.58	13.31	43.68	14.13
		Rural	English	613	309.26	67.88	41.50	15.86	50.05	18.23	57.00	13.13	71.24	10.34	48.59	12.71	40.87	15.77
			Urdu	10345	310.58	62.22	42.84	15.24	46.73	16.73	55.63	12.42	71.07	10.70	49.65	13.49	44.66	13.71
Public	Boys	Urban	English	25382	357.13	69.15	53.50	17.35	62.08	16.93	61.10	12.51	73.63	11.01	56.21	14.02	50.60	16.86
			Urdu	45429	337.56	70.61	49.49	17.21	54.02	18.02	58.27	13.48	71.19	11.35	54.76	14.57	49.83	15.40
		Rural	English	7344	365.73	69.31	55.81	18.11	63.24	16.55	61.84	13.04	74.45	10.85	58.20	14.26	52.18	15.85
			Urdu	106225	348.23	68.44	52.22	17.42	56.90	17.58	58.98	13.46	71.94	10.64	56.82	14.23	51.37	14.86
	Girls	Urban	English	21887	369.97	66.66	54.27	16.50	62.90	16.30	65.43	11.47	77.80	10.20	57.02	13.11	52.55	16.89
			Urdu	45616	349.28	68.05	50.24	16.50	54.38	17.08	62.02	12.03	75.13	10.60	55.31	13.88	52.20	15.39
		Rural	English	5088	366.70	70.15	53.50	17.10	62.36	17.63	65.06	12.45	77.18	9.74	56.71	13.42	51.88	17.02
			Urdu	83158	354.63	64.40	51.24	16.31	56.04	17.14	62.23	12.10	75.43	9.94	56.98	13.47	52.72	14.59

School	Gender	Locale	Medium	N	Total		Math		English		Urdu		Islamiat		Social Studies		Science	
					M	SD	M	SD	M	SD	M	SD	M	SD	M	SD	M	SD
Private Students	Boys	Urban	English	41954	343.18	61.29	50.44	16.19	59.58	16.10	59.19	11.81	72.11	10.56	53.94	13.25	47.92	15.71
			Urdu	77814	328.43	61.58	47.55	15.97	52.21	16.88	56.99	12.59	70.32	10.71	53.26	13.55	48.09	14.12
		Rural	English	11304	347.65	61.42	51.95	17.00	59.98	15.93	59.18	12.45	72.49	10.55	55.37	13.51	48.67	14.80
			Urdu	179673	336.27	59.83	49.62	16.22	54.60	16.64	57.28	12.59	70.71	10.16	54.89	13.28	49.17	13.68
	Girls	Urban	English	34261	351.32	58.82	50.29	15.12	59.44	15.58	63.00	10.77	76.12	9.91	54.32	12.38	48.15	15.29
			Urdu	76985	337.44	59.33	47.83	15.16	51.85	15.76	60.48	11.22	74.09	10.14	53.37	12.85	49.82	14.09
		Rural	English	7853	346.27	63.10	48.94	16.08	58.32	16.77	62.33	11.87	75.11	9.68	53.95	12.67	47.62	15.76
			Urdu	140763	342.15	56.96	48.72	15.19	53.37	16.12	60.52	11.49	74.31	9.61	54.91	12.66	50.31	13.52

Annexure 4

Table A4

Comparison of student performance by district

District	N	Total		English		Islamiat		Maths		Science		Social Studies		Urdu	
		M	SD	N	SD	N	SD	N	SD	N	SD	N	SD	N	SD
Chakwal	20821	323.44	64.73	53.82	17.31	68.72	11.37	44.79	14.47	47.48	15.52	49.11	14.12	59.51	13.87
Bhakkar	13817	369.33	61.52	60.99	16.02	74.81	9.68	54.12	17.56	56.53	14.39	60.77	11.93	62.12	12.05
Attock	24086	333.82	64.41	56.63	18.08	67.39	10.47	51.34	16.33	46.85	14.86	55.79	13.49	55.82	12.99
Bahawalngar	24595	375.59	60.34	62.23	16	77.67	9.25	51.23	15.06	57.37	14.14	61.85	11.72	65.25	11.94
Bahawalpur	24618	338.66	69.37	55.5	16.47	74.3	10.72	50.47	18.75	48.98	15.87	54.27	12.57	55.15	12.78
D.G. Khan	18840	394.17	61.94	64.13	15.71	79.89	9.06	56.2	18.11	60.57	14.34	65.5	13.28	67.9	12.69
Chiniot	9663	370.11	62.15	59.39	16.42	74.82	9.25	56.36	17.17	56.31	15.21	59.25	12.92	63.98	12.85
Faisalabad	89577	327.86	67.00	50.82	17.37	71.56	10.9	49.96	16.99	45.52	14.49	51.45	13.22	58.55	12.43
Gujranwala	50162	362.25	63.88	60.84	17.1	74.58	9.76	57.09	17.42	51.31	15.12	59.37	13.38	59.06	12.05
Gujrat	36913	320.27	63.04	50.27	16.58	70.48	10.68	45.02	16.01	48.12	14.02	51.05	13.36	55.34	12.82
Hafizabad	12521	318.78	59.96	50.19	17.87	71.93	9.46	43.12	14.66	45.14	13.83	51.16	12.63	57.25	12.32
Jehlum	18520	310.56	65.82	49.58	16.68	64.66	10.97	47.86	17.37	43.52	14.83	50.41	14.17	54.53	12.85
Jhang	23692	384.48	59.67	64.47	16.36	76.79	8.54	56.99	16.38	55.42	13.46	65.08	12.97	65.72	11.74
Kasur	32134	322.90	65.95	48.6	16.89	72.26	10.36	46.62	16.66	45.86	14.44	52.03	13.32	57.53	13.29
Khanewal	24318	339.63	62.35	54.1	17.26	73.9	9.58	48.32	16.88	49.77	14.3	54.77	12.82	58.78	12.69
Khushab	13647	333.78	69.41	50.32	17.12	73.11	10.86	50.58	16.81	47.22	15.2	52.41	13.8	60.15	13.21
Lahore	105942	335.57	67.45	53.76	16.4	70.03	11.11	48.98	16.23	51.01	15.16	52.04	14.17	59.75	12.28
Layyah	17201	362.04	69.59	58.25	18.58	78.45	9.88	55.15	17.69	52.44	15.54	59.09	13.35	58.66	13.3
Lodhran	11574	375.16	63.51	63.12	17.17	74.85	10.56	53.27	17.56	56.38	14.91	63.48	13.29	64.06	12.14
M. B. Din	19105	320.26	62.48	52.24	16.91	70.16	10.33	42.62	14.29	46.16	14.55	51.31	12.85	57.76	12.25
Mianwali	16490	351.29	60.20	54.59	16.48	73.06	10.24	53.58	16.39	51.86	14.51	56.66	12.92	61.53	12.02

District	N	Total		English		Islamiat		Maths		Science		Social Studies		Urdu	
		M	SD	N	SD	N	SD	N	SD	N	SD	N	SD	N	SD
Multan	38106	378.16	63.84	64.82	15.98	76.67	9.88	50.12	16.23	59.92	15.12	61.15	12.89	65.48	12.58
Muzaffargarh	29605	435.28	58.68	74.16	14.38	82.37	7.69	63.19	19.32	71.32	12.94	71.76	10.64	72.48	11.77
Nankana	17954	321.18	65.97	51.25	17.55	70.17	10.53	50.31	16.92	44.44	14.01	52.06	13.1	52.95	12.86
Narowal	26624	341.78	65.88	55.82	17.95	72.91	10.47	50.65	17.36	48.44	15.42	55.2	14.09	58.76	13.71
Okara	26946	320.93	67.55	51.64	17.98	73.43	10.87	41.28	14.22	45.99	16.04	51.27	13.54	57.32	13.28
Pakpattan	14398	341.92	62.34	53.43	17.01	73.99	9.84	48.64	15.42	48.54	14.24	56.1	12.78	61.24	11.7
R.Y. Khan	30941	339.54	63.53	52.43	16.48	74.88	9.32	50.49	16.67	49.37	14.61	52.5	13.96	59.87	12.18
Rajanpur	9369	378.88	52.17	63.83	15.85	79.78	7.68	53.21	14.16	56.44	11.97	61.26	12.34	64.36	11.8
Rawalpindi	43132	306.15	59.80	49.67	16.82	64.4	10.72	41.98	14.82	43.9	13.5	50.43	13.07	55.78	12.28
Sahiwal	25464	369.33	69.34	59.32	17.81	77.15	10.39	57.9	17.48	51.63	15.02	58.58	13.95	64.75	13.85
Sargodha	38573	372.33	62.72	62.86	17.11	76.56	9.59	58.13	17.01	54.02	14.14	60.32	12.45	60.44	12.05
Sheikhupura	30291	337.84	63.11	56.72	16.97	71.35	10.52	45.15	15.62	49.3	14.62	55.13	13.77	60.2	13.07
Sialkot	52105	321.81	59.54	51.12	16.16	71.75	10.18	44.31	15.66	47.29	13.48	51.78	12.1	55.57	12.31
T.T. Singh	25240	352.47	66.88	52.37	16.91	78.09	10.29	54.4	16.9	50.83	14.3	54.04	13.58	62.74	12.24
Vehari	24261	354.79	69.66	53.52	17.19	77.51	10	55.11	17.39	51.84	14.85	53.2	14.06	63.62	12.54
Overall	1041245	348.40	63.77	56.30	16.86	73.73	10.03	50.79	16.50	51.03	14.53	56.16	13.13	60.39	12.58

Annexure 5

Table A5

Comparison of student performance by districts by subject on the basis of type of school

District	Type of School	N	English		Islamiat		Math		Science		Social Studies		Urdu	
			M	SD	M	SD	M	SD	M	SD	M	SD	M	SD
Chakwal	Public School Students	12633	53.64	16.56	68.51	10.95	44.52	13.80	47.07	14.60	48.88	13.43	59.37	13.29
	Private School Students	6925	54.43	17.87	69.21	11.54	45.33	14.89	48.28	16.16	49.65	14.68	59.98	14.33
	Private Students	1070	46.48	16.84	64.67	12.12	39.29	13.57	41.12	14.60	43.69	13.85	53.92	13.85
Bhakkar	Public School Students	7753	59.32	15.55	73.84	9.51	51.78	16.42	54.63	13.43	59.50	11.27	60.67	11.31
	Private School Students	5069	62.10	15.43	75.57	9.20	55.60	17.06	57.82	13.87	61.55	11.72	63.06	11.80
	Private Students	484	53.08	17.33	70.12	11.16	45.46	16.48	48.40	15.34	54.45	12.81	56.20	13.07
Attock	Public School Students	14306	56.31	17.46	67.21	10.06	50.77	15.62	46.27	14.10	55.45	12.93	55.47	12.38
	Private School Students	8223	57.21	18.12	67.62	10.50	52.09	16.39	47.61	15.06	56.35	13.57	56.23	13.12
	Private Students	1218	48.64	18.87	63.21	11.23	44.32	15.37	40.56	13.80	49.53	13.78	50.57	13.18
Bahawalngar	Public School Students	13755	59.94	15.07	76.50	8.79	48.79	13.93	55.28	13.36	60.29	11.33	63.62	11.33
	Private School Students	9084	63.67	15.57	78.29	9.01	52.59	14.42	58.65	13.55	62.83	11.21	66.25	11.62
	Private Students	725	54.16	17.08	73.81	10.03	44.72	14.64	50.48	14.99	56.93	12.69	59.72	12.83
Bahawalpur	Public School Students	14256	54.11	15.17	73.62	10.30	48.56	17.19	47.38	14.38	53.21	11.75	54.10	11.91
	Private School Students	8405	56.34	16.55	74.66	10.57	51.80	18.83	49.88	15.80	55.04	12.61	55.77	12.78
	Private Students	1194	47.53	15.82	70.06	11.27	41.55	16.72	41.53	14.16	48.52	12.36	49.48	12.49
D.G. Khan	Public School Students	9499	60.79	15.25	78.25	8.83	51.82	16.85	57.57	13.73	62.96	13.04	65.45	12.42
	Private School Students	7267	65.28	14.68	80.23	8.60	57.46	17.00	61.39	13.37	66.32	12.57	68.72	11.96
	Private Students	523	56.09	17.70	76.32	10.24	47.39	18.18	52.50	15.71	59.36	15.12	61.58	14.49
Chiniot	Public School Students	5469	57.82	15.79	74.14	8.92	54.19	16.08	54.55	14.31	57.81	12.19	62.65	12.37
	Private School Students	3569	60.55	16.20	75.23	9.10	58.03	17.10	57.62	15.11	60.38	12.89	64.99	12.70
	Private Students	326	52.21	17.14	71.11	10.69	49.04	16.50	49.75	15.66	53.55	13.81	58.89	13.16
Faisalabad	Public School Students	53132	49.90	16.33	71.11	10.32	48.93	15.70	44.60	13.22	50.78	12.34	58.03	11.73
	Private School Students	29664	51.47	17.35	71.85	10.96	50.58	17.08	45.92	14.44	51.88	13.29	58.99	12.46
	Private Students	4708	42.61	15.88	66.85	11.17	42.26	15.19	39.10	12.59	45.35	12.46	52.47	12.44
Gujranwala	Public School Students	28546	59.23	16.30	73.88	9.52	55.12	16.34	49.72	14.12	58.03	12.64	57.92	11.43
	Private School Students	18114	62.07	16.93	75.01	9.55	58.39	17.02	52.27	14.79	60.26	13.10	59.82	11.84
	Private Students	1836	51.78	17.76	70.76	10.88	48.41	16.66	43.40	14.51	52.59	13.99	53.05	12.33
Gujrat	Public School Students	22357	49.91	15.79	70.39	10.23	44.51	14.94	47.67	13.20	50.73	12.61	55.19	12.14
	Private School Students	12164	50.79	16.81	70.64	10.80	45.64	16.35	48.71	14.27	51.50	13.61	55.58	13.10
	Private Students	1942	43.66	16.55	66.26	11.26	38.21	14.51	42.32	13.06	45.46	12.90	49.76	12.70
Hafizabad	Public School Students	7669	50.04	17.09	71.91	9.18	42.73	13.85	44.71	12.90	50.93	12.03	57.02	11.58

	Private School Students	4009	50.63	18.21	72.20	9.49	43.60	14.92	45.67	14.06	51.84	12.91	57.89	12.75
	Private Students	705	42.41	16.81	68.00	9.99	37.83	13.11	39.83	12.34	45.59	12.79	51.48	12.49
Jehlum	Public School Students	11085	49.59	16.05	64.67	10.64	47.72	16.72	43.45	14.27	50.45	13.66	54.61	12.37
	Private School Students	6204	50.42	17.02	65.08	11.11	48.93	17.76	44.24	15.21	51.08	14.60	54.97	13.07
	Private Students	1109	41.34	16.19	60.07	10.86	39.65	16.25	36.74	12.99	43.71	13.27	48.71	12.80
Jhang	Public School Students	12931	61.89	15.76	75.57	8.23	54.33	15.67	53.02	12.40	62.98	12.33	63.84	11.28
	Private School Students	8752	65.72	15.55	77.20	8.08	58.34	15.65	56.24	12.62	66.08	12.45	66.68	11.10
	Private Students	703	57.02	17.54	73.56	9.20	49.28	15.93	49.35	13.16	59.55	13.71	60.22	12.68
Kasur	Public School Students	19095	48.04	15.88	71.95	9.87	45.82	15.45	45.16	13.36	51.62	12.64	57.19	12.59
	Private School Students	10773	49.44	17.20	72.79	10.36	47.65	16.88	46.75	14.60	52.78	13.39	58.16	13.48
	Private Students	1764	40.32	16.07	67.24	10.90	38.58	15.16	38.61	13.13	45.31	13.37	50.84	13.45
Khanewal	Public School Students	14526	53.27	16.48	73.37	9.17	47.11	15.87	48.81	13.29	54.09	12.06	58.12	12.00
	Private School Students	8156	54.69	17.30	74.32	9.45	49.23	16.87	50.43	14.27	55.25	12.88	59.19	12.77
	Private Students	1114	46.71	16.58	70.64	10.39	41.92	14.98	43.55	12.88	49.10	11.96	53.94	12.33
Khushab	Public School Students	8025	49.22	15.85	72.63	10.13	49.65	15.63	46.11	13.63	51.67	12.94	59.54	12.34
	Private School Students	4532	50.75	16.85	73.22	10.91	50.85	16.71	47.41	14.95	52.69	13.62	60.44	13.22
	Private Students	686	41.24	15.75	67.74	11.34	41.60	15.08	39.58	13.66	45.17	12.98	52.56	13.26
Lahore	Public School Students	62398	53.03	15.43	69.61	10.45	48.00	15.00	50.16	14.00	51.42	13.36	59.20	11.46
	Private School Students	36121	54.45	16.63	70.35	11.29	49.66	16.41	51.74	15.35	52.66	14.38	60.26	12.43
	Private Students	5132	45.40	16.00	64.93	11.60	41.28	14.67	43.05	14.12	44.82	13.78	53.27	12.37
Layyah	Public School Students	9559	55.62	17.45	77.41	9.56	52.30	16.23	49.93	14.01	57.27	12.38	56.81	12.26
	Private School Students	6123	59.71	18.05	78.87	9.54	56.72	17.12	53.52	14.79	60.01	12.95	59.59	12.93
	Private Students	642	47.15	18.05	73.42	10.41	44.54	16.98	43.19	14.58	50.86	13.65	50.33	14.02
Lodhran	Public School Students	6411	60.69	16.56	73.84	10.43	50.46	16.08	54.21	13.77	61.69	12.58	62.43	11.57
	Private School Students	4143	64.09	16.40	75.13	10.06	54.15	17.10	56.79	14.31	64.00	12.86	64.61	11.52
	Private Students	372	55.48	18.95	70.14	12.26	44.99	16.87	49.27	14.66	57.12	14.05	57.28	12.86
Mandi Bahauddin	Public School Students	11260	52.07	16.18	70.09	9.79	42.32	13.56	45.93	13.58	51.23	12.24	57.67	11.54
	Private School Students	6454	52.84	17.18	70.42	10.49	43.09	14.53	46.72	14.96	51.70	12.95	58.22	12.56
	Private Students	1176	44.78	15.91	65.96	10.90	37.19	12.88	39.46	13.76	45.44	12.79	51.89	12.38
Mianwali	Public School Students	9714	53.25	15.60	72.37	9.82	52.22	15.23	50.82	13.36	55.77	12.24	60.78	11.39
	Private School Students	5606	55.39	16.42	73.48	10.13	54.37	16.37	52.27	14.47	57.25	12.75	61.95	12.10
	Private Students	724	49.20	15.93	69.28	10.23	46.81	15.17	45.29	13.61	50.81	12.89	56.83	12.08
Multan	Public School Students	20786	62.28	15.06	75.26	9.36	47.18	14.51	57.40	14.06	59.18	12.17	63.40	11.64
	Private School Students	13575	65.44	15.41	77.00	9.54	50.39	15.26	60.53	14.52	61.62	12.33	66.01	12.13
	Private Students	1232	57.59	16.88	72.03	11.04	42.50	14.44	52.52	15.80	55.02	14.30	58.92	13.28
Muzaffargarh	Public School Students	10918	68.12	14.45	79.60	7.77	53.35	17.26	65.49	12.34	67.46	10.14	67.15	10.98
	Private School Students	10139	72.11	13.24	81.24	7.11	59.67	16.61	69.45	11.59	69.98	9.46	70.49	10.30
	Private Students	534	64.01	18.24	77.32	9.95	50.21	18.95	62.41	15.33	64.48	12.37	64.39	13.55
Nankana Sahib	Public School Students	10724	50.74	16.42	69.87	10.09	49.75	15.83	43.74	12.92	51.66	12.26	52.58	11.97
	Private School Students	5850	51.89	17.83	70.61	10.51	51.10	17.12	45.17	14.23	52.66	13.34	53.51	12.96

	Private Students	1065	42.91	17.07	65.72	10.77	41.62	15.48	38.29	12.32	45.41	12.39	46.17	12.85
Narowal	Public School Students	15736	54.70	17.00	72.26	10.00	49.18	16.02	47.23	14.20	54.14	13.23	57.82	12.93
	Private School Students	8964	56.47	17.85	73.21	10.42	51.35	16.95	49.03	15.25	56.04	14.21	59.44	13.74
	Private Students	1171	47.13	17.80	69.18	10.44	42.44	16.01	41.03	14.02	48.66	13.73	52.23	14.12
Okara	Public School Students	16062	50.85	16.83	73.04	10.28	40.44	12.97	45.21	14.77	50.66	12.72	56.86	12.49
	Private School Students	8826	52.22	18.06	73.72	10.98	41.77	14.24	46.51	16.16	51.70	13.52	57.72	13.32
	Private Students	1489	42.96	15.79	68.96	10.89	35.09	12.28	38.10	13.85	45.50	13.11	50.42	12.70
Pakpattan	Public School Students	8475	51.95	16.06	73.27	9.49	47.14	14.27	47.11	13.01	55.04	12.01	60.35	10.92
	Private School Students	4852	54.32	16.72	74.54	9.73	49.52	15.19	49.28	14.02	56.84	12.71	61.75	11.61
	Private Students	684	47.54	15.84	70.55	9.54	43.29	13.65	43.52	12.34	51.10	11.94	56.47	11.45
Rahim Yar Khan	Public School Students	18395	51.73	15.61	74.64	8.88	49.66	15.87	48.59	13.56	51.99	13.31	59.45	11.53
	Private School Students	10504	53.41	16.67	75.20	9.33	51.53	16.63	50.18	14.80	53.22	14.08	60.51	12.30
	Private Students	1504	43.93	16.05	70.55	10.49	42.64	16.13	42.54	14.06	45.67	14.11	53.50	12.62
Rajanpur	Public School Students	5364	62.31	15.55	79.23	7.69	51.83	13.44	55.01	11.18	59.99	11.95	63.25	11.40
	Private School Students	3498	64.93	15.31	80.06	7.45	53.91	13.86	57.25	11.59	62.04	11.98	65.04	11.50
	Private Students	242	58.57	18.46	78.57	7.12	47.99	14.35	52.36	12.39	58.47	13.38	59.77	12.75
Rawalpindi	Public School Students	26304	49.96	16.33	64.63	10.41	42.05	14.33	43.90	13.01	50.69	12.67	55.99	11.87
	Private School Students	14086	50.08	17.21	64.57	10.88	42.45	15.18	44.54	13.94	50.70	13.45	56.10	12.58
	Private Students	2598	42.83	16.81	60.16	11.32	36.63	14.10	38.64	12.81	45.13	13.04	50.65	12.60
Sahiwal	Public School Students	14004	56.25	16.19	75.53	9.72	54.81	15.70	48.90	13.27	56.48	12.86	62.56	12.62
	Private School Students	8665	59.52	17.12	77.26	9.85	58.14	16.80	51.64	14.18	58.81	13.63	64.67	13.26
	Private Students	945	51.32	17.27	72.57	10.39	50.12	16.79	44.66	13.70	51.77	13.63	57.90	13.25
Sargodha	Public School Students	21454	60.45	16.39	75.44	9.32	55.53	15.81	51.83	12.97	58.59	11.76	58.75	11.36
	Private School Students	14064	64.35	16.58	77.04	9.27	59.53	16.59	55.07	13.70	61.25	12.12	61.34	11.64
	Private Students	1278	54.97	17.57	73.31	10.05	50.46	16.99	47.41	14.04	54.75	12.49	54.84	12.68
Sheikhupura	Public School Students	17938	56.31	16.31	71.02	10.15	44.61	14.96	48.86	13.87	54.77	13.17	59.87	12.53
	Private School Students	10527	57.69	17.12	71.94	10.59	45.95	15.78	50.01	14.83	55.83	13.92	60.85	13.16
	Private Students	1455	47.99	17.66	67.14	11.46	38.50	14.78	42.32	14.46	48.58	14.38	53.97	13.54
Sialkot	Public School Students	31647	50.89	15.51	71.68	9.86	43.90	14.78	47.00	12.79	51.59	11.53	55.39	11.71
	Private School Students	17178	51.78	16.44	71.97	10.32	45.13	16.09	47.93	13.85	52.29	12.41	56.13	12.58
	Private Students	2816	44.44	15.84	68.56	10.54	37.83	14.42	41.71	12.39	46.75	11.77	50.08	12.46
T.T. Singh	Public School Students	14531	50.45	15.50	77.12	9.80	52.31	15.45	48.92	12.64	52.41	12.40	61.34	11.22
	Private School Students	8537	53.13	16.66	78.44	10.17	55.19	16.43	51.42	13.97	54.64	13.15	63.34	12.03
	Private Students	1098	43.89	15.91	74.35	10.41	46.70	15.99	44.31	12.90	47.60	12.97	56.68	12.13
Vehari	Public School Students	13902	51.06	15.54	76.31	9.49	52.65	15.78	49.48	12.99	51.24	12.76	61.99	11.51
	Private School Students	8135	54.05	16.65	77.81	9.52	55.49	16.82	52.22	13.99	53.62	13.57	63.83	11.97
	Private Students	910	44.40	15.67	72.68	10.72	46.84	15.63	44.07	13.45	46.14	13.13	57.14	12.43

Table A6

Comparison of student performance by districts by subject on the basis of Gender

District	Gender	N	English		Islamiat		Math		Science		Social Studies		Urdu	
			M	SD	M	SD	M	SD	M	SD	M	SD	M	SD
Chakwal	Male	11348	53.33	17.54	66.14	11.19	44.18	14.54	45.91	15.13	48.83	14.51	56.99	14.18
	Female	9473	54.41	17.01	71.81	10.79	45.52	14.35	49.36	15.75	49.44	13.62	62.53	12.86
Bhakkar	Male	8989	61.98	15.49	73.64	9.98	54.44	17.82	56.11	14.64	60.90	12.05	61.63	12.19
	Female	4828	59.15	16.81	76.99	8.66	53.53	17.04	57.29	13.87	60.53	11.69	63.03	11.70
Attock	Male	14092	57.85	17.92	64.84	10.22	51.54	16.39	46.49	14.78	55.11	13.78	54.01	13.49
	Female	9994	54.90	18.16	70.99	9.73	51.07	16.23	47.37	14.96	56.74	13.00	58.37	11.77
Bahawalngar	Male	13833	61.43	15.62	75.58	9.27	51.41	15.65	55.79	13.89	61.51	11.80	63.42	12.05
	Female	10762	63.26	16.41	80.35	8.48	51.00	14.26	59.40	14.20	62.29	11.60	67.60	11.35
Bahawalpur	Male	13557	54.36	15.99	72.11	10.42	49.16	18.50	46.86	14.80	53.11	12.58	52.45	12.56
	Female	11061	56.90	16.92	76.98	10.45	52.08	18.91	51.59	16.72	55.68	12.40	58.46	12.25
D.G. Khan	Male	12070	63.30	15.99	79.10	9.18	55.69	18.45	59.90	14.63	65.27	13.62	66.60	12.90
	Female	6769	65.60	15.08	81.29	8.65	57.10	17.45	61.76	13.72	65.89	12.63	70.24	11.95
Chiniot	Male	6408	59.56	16.12	73.16	9.29	54.15	16.86	54.17	14.84	58.53	12.91	62.84	13.48
	Female	3255	59.06	16.98	78.11	8.24	60.70	16.92	60.51	15.04	60.67	12.82	66.21	11.17
Faisalabad	Male	46233	51.50	17.33	68.84	10.82	49.56	17.15	44.98	13.94	50.72	13.45	56.34	12.60
	Female	43344	50.10	17.38	74.45	10.22	50.38	16.80	46.09	15.02	52.23	12.93	60.92	11.78
Gujranwala	Male	23362	62.39	17.39	73.38	10.03	58.88	18.03	51.92	15.25	59.91	13.66	57.86	12.87
	Female	26373	59.53	16.69	75.69	9.33	55.60	16.66	50.87	14.95	58.94	13.06	60.20	11.15
Gujrat	Male	17936	48.68	16.73	67.96	10.69	44.27	16.06	46.14	13.60	48.76	12.93	52.29	12.58
	Female	18977	51.78	16.29	72.86	10.11	45.72	15.92	49.98	14.15	53.22	13.39	58.23	12.36
Hafizabad	male	6968	51.17	17.54	70.48	9.41	44.51	15.01	45.60	13.97	51.53	12.48	56.29	12.51
	Female	5553	48.95	18.20	73.76	9.20	41.38	14.01	44.57	13.63	50.69	12.78	58.45	11.97
Jehlum	Male	9924	50.07	17.07	62.54	11.11	47.61	17.43	43.37	15.45	48.92	14.15	51.96	12.98
	Female	8596	49.00	16.18	67.10	10.28	48.16	17.29	43.70	14.06	52.14	14.00	57.50	12.03
Jhang	Male	14940	64.56	15.88	75.36	8.42	57.34	16.85	54.88	13.24	64.55	12.59	64.59	11.86
	Female	8752	64.32	17.13	79.23	8.17	56.40	15.53	56.33	13.78	66.00	13.53	67.67	11.27
Kasur	Male	17273	46.23	16.49	70.17	10.21	45.06	16.49	43.64	13.82	50.54	13.56	54.60	13.47
	Female	14861	51.37	16.93	74.68	9.99	48.44	16.67	48.44	14.71	53.77	12.80	60.93	12.21
Khanewal	Male	14228	55.82	17.04	72.61	9.81	49.23	17.22	49.90	14.18	54.16	13.02	57.50	13.03
	Female	10090	51.66	17.28	75.73	8.91	47.03	16.28	49.58	14.45	55.63	12.47	60.58	11.95
Khushab	Male	8721	48.96	16.69	71.07	10.72	49.64	16.73	45.22	14.70	51.42	14.04	57.84	13.39
	Female	4926	52.73	17.60	76.72	10.14	52.24	16.83	50.76	15.42	54.16	13.18	64.24	11.83

Lahore	Male	52320	52.84	16.47	67.80	11.10	48.10	16.26	49.08	14.91	52.21	14.45	57.53	12.35
	Female	53622	54.66	16.27	72.21	10.66	49.83	16.15	52.89	15.15	51.87	13.89	61.93	11.81
Layyah	Male	10411	58.09	19.34	77.19	10.32	54.14	18.40	49.90	15.68	58.18	14.10	56.59	13.75
	Female	6790	58.50	17.33	80.39	8.82	56.69	16.42	56.35	14.49	60.49	11.96	61.84	11.87
Lodhran	Male	6868	64.84	17.11	74.62	10.06	55.95	17.83	57.52	14.44	65.52	12.62	63.71	12.09
	Female	4706	60.61	16.95	75.18	11.23	49.35	16.37	54.73	15.40	60.50	13.67	64.57	12.17
Mandi Bahauddin	Male	10067	51.09	17.26	68.44	10.56	42.92	14.78	44.91	14.20	50.87	12.78	55.89	12.57
	Female	9038	53.53	16.42	72.08	9.71	42.29	13.71	47.55	14.79	51.80	12.90	59.85	11.53
Mianwali	Male	11040	55.88	16.10	71.23	9.92	52.61	16.30	50.57	14.04	55.54	13.16	59.74	12.08
	Female	5450	51.96	16.89	76.78	9.85	55.54	16.37	54.49	15.07	58.94	12.10	65.17	11.05
Multan	Male	21137	65.66	15.83	75.15	10.0	50.77	16.42	59.24	15.70	61.73	13.04	64.86	13.05
	Female	16969	63.79	16.09	78.56	9.30	49.29	15.95	60.76	14.32	60.44	12.66	66.25	11.91
Muzaffargarh	Male	18778	74.25	14.51	82.20	8.03	64.84	19.20	71.08	12.93	72.04	10.92	72.21	12.21
	Female	10827	74.01	14.14	82.66	7.03	60.33	19.17	71.73	12.94	71.29	10.13	72.96	10.94
Nankana Sahib	Male	10095	51.21	17.63	67.89	10.70	50.44	17.68	44.97	13.80	51.36	13.50	51.24	13.25
	Female	7859	51.30	17.43	73.11	9.52	50.15	15.87	43.76	14.24	52.96	12.52	55.14	11.96
Narowal	Male	13400	57.13	18.06	70.40	10.49	50.21	17.81	47.80	15.28	54.17	14.03	56.24	14.11
	Female	13224	54.49	17.73	75.45	9.81	51.10	16.88	49.09	15.52	56.26	14.06	61.31	12.80
Okara	Male	15366	49.67	18.01	71.16	10.94	40.72	14.29	43.82	15.32	50.86	13.32	54.89	13.10
	Female	11580	54.26	17.60	76.44	10.01	42.03	14.09	48.87	16.50	51.82	13.81	60.54	12.82
Pakpattan	Male	8538	53.09	16.97	73.22	9.38	49.55	15.68	48.52	13.89	56.24	12.34	60.24	11.53
	Female	5860	53.92	17.05	75.11	10.38	47.30	14.91	48.56	14.74	55.89	13.39	62.69	11.79
Rahim Yar Khan	Male	18005	52.46	16.04	73.73	9.01	50.33	16.69	48.51	14.21	53.46	13.87	58.87	12.28
	Female	12936	52.39	17.07	76.48	9.50	50.72	16.63	50.56	15.06	51.16	13.95	61.28	11.89
Rajanpur	Male	6230	63.95	16.52	79.04	7.90	53.65	14.36	56.14	11.69	61.44	12.78	62.83	12.39
	Female	3139	63.60	14.44	81.26	6.98	52.34	13.69	57.04	12.48	60.91	11.40	67.38	9.856
Rawalpindi	Male	22698	49.49	17.03	62.25	10.58	41.33	15.10	43.34	13.73	49.00	13.12	53.59	12.55
	Female	20434	49.86	16.58	66.79	10.35	42.70	14.45	44.52	13.20	52.02	12.83	58.21	11.49
Sahiwal	Male	14111	58.36	17.70	75.19	10.29	57.16	17.54	49.69	14.91	57.43	14.40	61.99	13.69
	Female	11353	60.51	17.86	79.59	9.99	58.83	17.34	54.04	14.79	60.00	13.23	68.18	13.26
Sargodha	Male	21655	63.57	16.91	75.16	9.40	57.98	17.58	53.90	13.64	60.24	12.78	59.33	12.47
	Female	16918	61.97	17.30	78.34	9.53	58.32	16.23	54.17	14.75	60.43	11.99	61.85	11.33
sheikhupura	Male	15347	57.46	16.70	70.05	10.29	46.64	15.82	48.98	14.31	55.14	13.48	58.36	13.15
	Female	14944	55.95	17.19	72.68	10.58	43.62	15.26	49.62	14.92	55.12	14.06	62.10	12.70
Sialkot	Male	24774	50.60	16.76	68.57	9.97	43.65	16.53	45.62	13.68	51.28	12.69	53.14	12.73
	Female	27331	51.59	15.58	74.64	9.46	44.91	14.80	48.80	13.11	52.24	11.50	57.77	11.48
T.T. Singh	Male	13381	51.98	17.67	75.24	10.43	53.34	17.40	49.01	13.92	53.97	13.89	60.69	12.78
	Female	11859	52.81	15.98	81.32	9.09	55.59	16.23	52.89	14.46	54.12	13.21	65.05	11.15
Vehari	Male	13588	53.41	17.34	76.02	10.37	54.89	17.80	50.51	14.86	53.15	14.23	61.83	12.82
	Female	10673	53.66	17.00	79.40	9.16	55.39	16.85	53.53	14.65	53.25	13.83	65.91	11.79

Table A7

Comparison of student performance by districts by subject on the basis of medium of instruction

District	Medium	N	English		Islamiat		Math		Science		Social Studies		Urdu	
			M	SD	M	SD	M	SD	M	SD	M	SD	M	SD
Chakwal	English	2946	62.42	16.93	74.67	10.42	48.28	14.77	52.18	17.11	52.74	14.24	65.46	13.37
	Urdu	16943	52.63	16.88	67.90	11.14	44.58	14.25	47.09	14.99	48.75	13.94	58.79	13.58
Bhakkar	English	2093	57.70	17.27	74.15	9.85	50.69	17.74	48.20	16.03	58.85	12.23	60.65	11.49
	Urdu	10640	62.12	15.43	75.52	9.23	55.83	17.13	58.91	13.12	61.88	11.44	63.09	11.66
Attock	English	5030	60.70	17.15	70.53	10.34	53.95	16.71	45.90	16.64	55.63	14.11	59.53	13.00
	Urdu	17474	56.19	17.94	67.10	10.09	51.59	15.86	47.76	14.22	56.42	13.12	55.36	12.60
Bahawalngar	English	1677	71.64	14.84	84.51	8.23	58.28	15.88	62.72	16.01	65.92	11.20	71.22	11.25
	Urdu	20879	62.09	15.55	77.70	8.81	51.62	14.45	57.83	13.52	62.15	11.28	65.45	11.46
Bahawalpur	English	6263	60.79	16.47	76.46	10.54	53.52	19.68	46.11	17.20	54.17	12.04	57.04	12.86
	Urdu	17082	54.25	15.77	74.03	10.40	50.48	18.16	50.83	15.06	54.96	12.50	55.10	12.45
D.G. Khan	English	3537	67.14	14.60	82.43	8.30	61.07	16.52	61.01	15.00	66.25	11.85	69.16	11.44
	Urdu	14758	63.66	15.81	79.46	9.06	55.51	18.11	60.72	14.10	65.55	13.49	67.81	12.84
Chiniot	English	696	67.86	15.45	80.20	8.70	61.12	17.37	60.33	14.00	64.33	11.84	70.03	10.79
	Urdu	8330	59.37	15.94	74.91	8.76	56.96	16.72	57.01	14.66	59.43	12.72	64.17	12.45
Faisalabad	English	16702	61.54	16.98	75.31	10.41	56.06	18.20	47.39	17.28	54.72	13.36	63.95	11.78
	Urdu	67807	48.86	16.39	71.04	10.71	49.35	16.20	45.62	13.65	51.20	12.96	57.79	12.09
Gujranwala	English	6867	65.45	16.21	76.82	10.19	60.15	18.93	52.63	18.31	61.58	13.73	60.81	12.07
	Urdu	42341	60.19	17.07	74.29	9.59	56.74	17.07	51.24	14.50	59.13	13.23	58.92	11.97
Gujrat	English	3310	59.36	17.04	75.65	10.06	50.05	16.92	50.87	16.06	54.58	14.93	59.88	12.34
	Urdu	33037	49.48	16.26	70.03	10.58	44.67	15.83	47.96	13.77	50.78	13.13	54.99	12.76
Hafizabad	English	1547	55.77	19.55	75.41	9.03	46.69	16.36	44.89	17.80	54.54	12.95	62.17	12.77
	Urdu	9854	49.98	17.45	71.85	9.19	43.38	14.25	45.76	13.14	51.37	12.34	57.22	11.85
Jehlum	English	3213	56.40	15.85	66.29	11.12	50.85	17.75	43.01	15.33	53.34	12.91	59.11	11.95
	Urdu	14096	48.35	16.48	64.50	10.86	47.84	17.18	43.93	14.66	50.17	14.37	53.72	12.85
Jhang	English	2862	69.40	15.04	80.70	7.73	60.57	15.10	57.86	15.72	69.33	12.34	70.27	10.54
	Urdu	19880	63.97	16.32	76.37	8.40	56.74	16.37	55.14	12.99	64.71	12.86	65.31	11.66
Kasur	English	2883	60.42	17.59	76.97	10.97	52.35	19.75	45.89	19.01	53.20	12.69	62.06	12.22
	Urdu	28019	47.74	16.31	72.02	10.07	46.51	16.13	46.11	13.87	52.13	13.32	57.33	13.25
Khanewal	English	4508	58.34	17.94	76.12	10.66	47.49	17.54	46.58	17.28	53.38	13.02	60.27	13.08
	Urdu	18772	53.36	16.87	73.55	9.16	49.01	16.59	50.84	13.29	55.37	12.68	58.68	12.49
Khushab	English	1919	59.50	20.17	77.64	10.95	52.38	19.08	49.59	20.81	52.65	14.81	64.36	13.72
	Urdu	10302	49.83	15.86	72.88	10.40	51.59	16.14	47.77	13.87	53.14	13.44	60.32	12.67

Lahore	English	30940	61.07	15.64	72.78	11.52	53.64	16.97	54.05	16.74	53.52	14.22	62.51	12.01
	Urdu	69765	51.07	15.64	69.14	10.63	47.57	15.42	50.22	14.17	51.79	14.01	58.90	12.14
Layyah	English	2333	60.55	18.39	81.18	9.79	54.24	18.76	47.58	18.57	57.44	13.48	58.16	13.69
	Urdu	14539	58.13	18.53	78.16	9.76	55.63	17.41	53.47	14.78	59.58	13.22	58.94	13.14
Lodhran	English	1275	71.50	14.92	77.13	9.18	50.59	17.25	57.79	20.64	64.59	11.94	65.71	11.33
	Urdu	9725	62.70	16.77	74.91	10.52	54.53	17.21	56.87	13.67	63.88	13.19	64.37	11.98
Mandi Bahauddin	English	2871	61.23	17.30	73.20	9.95	46.49	15.43	47.46	16.34	54.63	12.88	61.52	12.42
	Urdu	15977	50.77	16.33	69.69	10.28	42.09	13.96	46.09	14.16	50.84	12.73	57.20	12.08
Mianwali	English	2255	59.21	17.01	75.36	9.60	54.99	17.50	49.33	15.11	57.42	12.29	63.31	11.48
	Urdu	13295	54.29	16.09	73.05	10.18	54.05	16.06	52.76	14.26	57.11	12.77	61.76	11.90
Multan	English	7372	72.47	13.10	78.38	10.33	53.44	16.50	61.62	16.02	62.51	13.04	68.37	12.68
	Urdu	30007	63.19	15.94	76.38	9.66	49.57	15.98	59.79	14.73	61.03	12.71	64.94	12.39
Muzaffargarh	English	3111	78.82	13.63	83.29	7.09	64.61	18.42	74.24	12.14	71.25	11.70	75.86	11.87
	Urdu	25870	73.76	14.30	82.32	7.73	63.14	19.39	71.03	12.98	71.92	10.46	72.16	11.65
Nankana Sahib	English	3145	58.85	18.18	72.78	10.37	56.32	17.34	45.24	16.16	54.91	14.16	57.52	13.72
	Urdu	14059	50.15	16.86	69.87	10.36	49.69	16.43	44.73	13.41	51.85	12.63	52.30	12.29
Narowal	English	2323	70.14	18.48	78.14	11.99	58.35	19.82	57.03	17.29	61.88	13.78	67.68	12.64
	Urdu	24011	54.45	17.25	72.44	10.16	50.04	16.88	47.63	14.96	54.58	13.92	57.92	13.49
Okara	English	5582	57.37	19.07	76.34	11.32	43.29	15.42	45.83	18.62	54.18	14.42	60.64	13.58
	Urdu	19472	51.11	17.24	73.23	10.47	41.61	13.73	47.17	15.00	51.36	12.98	57.32	12.78
Pakpattan	English	1869	56.16	19.39	77.23	8.63	50.30	15.89	43.69	16.14	56.62	12.77	61.64	11.76
	Urdu	11825	53.64	16.42	73.76	9.89	49.02	15.26	49.80	13.72	56.35	12.77	61.50	11.57
Rahimyar Khan	English	5241	59.63	17.52	77.47	9.75	53.70	16.29	49.33	16.84	53.54	13.99	63.23	11.41
	Urdu	23798	51.55	15.74	74.69	8.94	50.47	16.54	49.87	14.03	52.67	13.81	59.65	12.02
Rajanpur	English	1759	67.90	13.20	83.13	6.21	59.74	13.47	57.90	12.29	63.60	10.89	69.94	9.66
	Urdu	6946	63.15	16.07	79.42	7.56	52.29	13.71	56.70	11.61	61.32	12.35	63.36	11.71
Rawalpindi	English	10029	55.98	16.55	66.38	11.16	44.25	15.27	44.86	15.11	50.68	13.01	57.99	11.93
	Urdu	32451	47.85	16.42	63.88	10.46	41.41	14.59	43.74	12.93	50.45	13.05	55.17	12.26
Sahiwal	English	4457	66.80	17.75	80.91	10.46	62.32	18.84	51.81	18.07	60.27	14.48	70.05	14.56
	Urdu	19890	58.32	17.23	76.74	10.00	57.84	16.67	52.11	14.17	58.68	13.63	64.09	13.22
Sargodha	English	6562	68.70	15.95	78.31	9.44	63.18	16.95	53.63	15.61	63.42	11.35	62.92	11.30
	Urdu	29270	62.28	16.75	76.58	9.31	58.22	16.33	54.56	13.67	60.23	12.28	60.44	11.84
Sheikhupura	English	4118	60.77	18.08	74.20	10.23	47.10	18.05	51.60	15.78	54.72	14.29	59.49	13.25
	Urdu	25036	56.27	16.62	70.99	10.45	45.00	15.11	49.11	14.33	55.37	13.63	60.48	12.93
Sialkot	English	7600	58.80	15.79	73.65	9.79	49.77	16.41	50.21	14.86	55.25	12.35	60.72	12.07
	Urdu	43089	50.06	15.78	71.59	10.18	43.65	15.29	47.04	13.12	51.39	11.87	54.87	12.07
T.T. Singh	English	3899	59.14	19.22	81.24	10.39	56.26	18.62	50.77	17.57	55.66	14.10	65.06	13.41
	Urdu	19962	51.84	15.89	77.89	9.96	54.97	16.27	51.43	13.49	54.29	13.36	62.93	11.68
Vehari	English	2709	64.66	17.88	81.39	11.16	62.42	18.20	59.92	17.21	56.55	15.77	69.61	13.42
	Urdu	20326	52.76	16.42	77.38	9.52	54.96	16.85	51.47	14.01	53.30	13.60	63.44	11.95

Table A8

Comparison of student performance by Tehsil of districts by subject

District	Tehsil	N	Total		English		Islamiat		Maths		Science		Social Studies		Urdu	
			M	SD	M	SD	M	SD	M	SD	M	SD	M	SD	M	SD
Chakwal	Chakwal	9021	323.94	63.15	53.25	17.13	69.10	11.78	45.56	14.00	48.65	15.21	48.02	13.00	59.36	13.48
	Choa Saidan Shah	2031	315.83	73.35	54.90	17.49	65.28	11.57	42.74	14.70	45.94	17.08	49.27	14.69	57.69	16.05
	Kallar Kahar	2274	322.29	74.16	50.11	19.17	72.10	10.02	42.23	15.43	46.24	17.18	48.44	15.84	63.17	15.89
	Talagang	7495	325.24	60.80	55.35	16.68	68.16	10.87	45.21	14.54	46.87	14.80	50.57	14.58	59.08	12.83
Bhakkar	Bhakkar	6135	355.00	63.36	56.67	16.39	75.60	9.70	51.23	17.28	52.69	14.60	59.37	11.88	59.44	11.49
	Darya Khan	2707	364.85	62.03	61.24	15.92	70.02	9.85	56.01	17.53	54.82	14.45	58.74	13.26	64.03	11.86
	Kallar Kot	2845	378.41	54.09	63.85	14.79	73.81	8.44	57.98	16.61	59.74	12.13	62.34	10.70	60.69	11.51
	Mankera	2130	404.21	47.45	69.31	12.00	79.98	7.70	54.90	18.22	65.45	11.34	65.26	10.35	69.31	11.24
Attock	Attock	4978	326.33	64.48	54.90	18.38	67.31	10.96	50.34	15.72	44.20	14.09	53.86	12.99	55.73	13.42
	Fatah Jang	4080	352.22	64.12	59.87	16.09	68.38	10.87	54.26	16.56	51.49	16.67	60.22	13.79	58.00	13.35
	Hassanabdal	2094	306.07	59.89	45.00	16.19	65.18	10.23	47.84	14.87	42.99	13.04	52.26	13.65	52.81	11.98
	Hazro	4081	301.29	56.69	49.72	17.29	63.72	9.77	45.68	15.14	39.90	12.98	49.29	12.62	52.97	11.82
	Jand	4987	355.56	58.46	63.99	16.87	68.75	9.75	54.55	16.36	51.09	13.34	60.36	12.03	56.83	13.39
	Pindi Gheb	3866	345.37	60.93	59.52	16.95	69.77	9.91	53.30	16.69	49.36	14.42	56.46	12.48	56.96	12.41
Bahawalnagar	Bahawalnagar	5986	377.29	57.63	64.99	13.82	77.64	9.91	50.42	14.44	57.13	14.35	62.15	11.86	64.96	12.44
	Chishtian	6359	382.87	56.81	62.30	15.28	78.82	8.67	52.51	15.02	58.19	13.55	63.88	10.45	67.17	10.92
	Fort Abbas	3713	368.60	61.04	57.88	16.53	76.00	9.89	51.21	15.71	59.82	13.49	61.08	11.28	62.61	11.73
	Haroonabad	5528	355.49	63.27	57.28	16.03	76.85	9.03	47.74	15.28	53.29	15.48	58.11	13.07	62.21	11.83
	Minchinabad	3009	402.44	52.42	71.05	15.78	78.83	8.09	56.59	13.17	60.60	11.11	64.77	9.89	70.60	10.77
Bahawalpur	Ahmadpur East	4362	331.11	70.63	53.83	16.65	73.07	10.77	48.63	18.33	48.43	16.15	53.66	13.38	53.50	13.02
	Bahawalpur	10790	328.51	66.46	54.66	16.83	73.60	10.90	47.95	17.57	45.12	14.97	52.86	11.87	54.33	13.06
	Hasilpur	4166	378.97	67.88	61.15	16.29	78.78	9.29	60.97	18.68	59.25	15.03	59.28	12.14	59.53	11.79
	Kairpur Tamewali	1100	313.82	59.47	53.12	11.92	70.51	11.66	43.00	17.15	46.67	14.09	47.92	11.68	52.60	11.88
	Yazman	4200	339.13	63.97	54.40	15.31	73.90	9.98	50.40	18.75	49.90	14.45	55.21	12.42	55.32	11.95
DG Khan	DG Khan	12821	381.05	62.13	61.55	16.13	78.94	9.01	52.26	17.88	59.03	15.01	63.82	14.12	65.45	12.67
	Taunsa	6019	422.14	51.37	69.62	13.21	81.91	8.82	64.59	15.57	63.84	12.17	69.06	10.41	73.13	11.04
Chiniot	Bhowana	2249	371.66	70.71	58.15	17.46	76.34	9.24	57.76	16.91	55.33	16.17	59.93	14.39	64.14	13.52
	Chiniot	4331	378.01	59.22	60.42	16.74	74.43	9.36	58.05	18.16	59.48	14.28	59.85	12.85	65.78	11.88
	Lalian	3082	357.93	57.40	58.86	15.04	74.27	8.99	52.97	15.32	52.57	14.81	57.93	11.75	61.33	13.21
Faisalabad	Chak Jumra	3856	332.77	56.54	49.76	16.16	70.61	9.83	49.76	16.05	47.34	12.66	57.09	11.17	58.21	10.55
	Faisalabad City	41453	325.25	69.96	51.27	17.75	70.87	11.41	49.27	17.36	44.68	14.97	50.63	13.23	58.52	12.83
	Faisalabad Saddar	15291	347.65	63.49	55.76	16.39	72.71	10.35	53.56	16.69	50.24	14.29	54.66	13.10	60.71	11.71

	Jaranwala	14756	318.10	61.84	48.64	16.94	71.34	10.60	48.64	16.41	42.56	12.95	49.61	12.60	57.31	12.00
	Samundari	9033	324.79	65.87	46.51	16.69	72.53	10.69	49.86	16.20	46.78	14.09	52.49	13.31	56.62	12.59
	Tandianwala	5172	320.13	64.42	47.27	16.60	73.26	9.70	49.03	17.19	43.19	13.57	47.78	13.35	59.60	12.42
Gujranwala	Gujranwala	24254	365.09	67.68	60.42	17.73	75.64	10.19	57.53	18.05	51.43	15.98	60.56	14.02	59.51	12.25
	Kamoke	8117	367.11	54.31	63.97	15.41	72.63	8.28	59.40	16.19	52.30	12.99	59.84	11.75	58.98	11.00
	Noshera Virkan	6739	361.06	61.27	62.89	16.69	73.11	9.18	55.88	17.24	49.12	14.84	60.16	12.89	59.89	12.06
Gujrat	Wazirabad	10625	353.84	62.03	58.25	16.53	74.70	9.72	55.32	16.61	51.92	14.59	55.92	12.66	57.73	12.23
	Gujrat	21934	323.71	64.75	50.45	16.67	71.39	11.03	45.84	16.14	48.98	13.93	52.41	13.70	54.64	12.82
	Kharian	12067	322.13	58.40	51.33	16.32	70.05	9.93	44.68	15.88	48.44	13.91	49.91	12.52	57.71	12.36
Hafizabad	Sarai Alamgir	2912	286.75	58.74	44.50	15.80	65.39	9.44	40.18	14.60	40.30	12.71	45.56	12.19	50.81	12.93
	Hafizabad	7381	317.36	62.07	48.88	18.06	72.84	9.70	42.88	15.05	44.41	14.52	51.18	12.94	57.17	12.78
	Pindi Bhattian	5140	320.84	56.74	52.07	17.43	70.62	8.95	43.47	14.08	46.20	12.70	51.12	12.17	57.36	11.64
Jhelum	Dina	3521	281.08	64.20	41.98	16.78	62.63	11.00	44.37	17.04	37.93	13.39	43.53	13.71	50.64	13.09
	Jhelum	6606	306.21	62.97	49.26	16.23	64.34	11.56	44.61	16.02	42.54	14.74	50.99	13.57	54.47	12.55
	Pind Dadan Khan	5180	338.03	62.29	54.30	15.36	67.62	10.08	54.58	17.27	49.28	14.61	54.21	13.62	58.04	12.30
Jhang	Sohawa	3213	307.52	61.95	50.93	16.50	62.75	9.98	47.54	17.46	42.38	13.74	50.65	14.11	53.28	12.61
	Ahmadpur Sial	3351	380.29	58.92	66.78	17.22	76.44	8.00	57.24	15.16	51.84	12.95	63.20	13.31	64.80	12.65
	Jhang	15862	388.33	61.05	64.66	16.52	77.32	8.59	56.33	16.68	56.50	13.71	66.77	12.83	66.74	11.70
Kasur	Shorkot	4479	374.02	53.54	62.08	14.76	75.20	8.57	59.15	16.01	54.27	12.36	60.51	11.87	62.81	10.56
	Chunian	7578	313.97	57.67	46.30	14.95	72.19	9.78	44.61	15.58	44.85	12.30	50.76	12.34	55.26	12.46
	Kasur	11722	329.99	70.51	50.39	17.52	72.55	10.96	47.82	17.93	47.65	16.09	53.26	13.29	58.32	13.38
Khanewal	Kot Radha Kishan	3675	332.21	60.33	51.81	16.09	73.00	9.36	48.24	16.22	46.55	12.52	54.76	12.04	57.85	13.64
	Pattoki	9159	317.50	67.03	46.94	17.44	71.64	10.38	46.12	15.81	44.12	14.28	50.42	14.25	58.26	13.48
	Jahanian	2839	307.13	64.60	43.31	17.40	73.03	10.41	43.82	15.78	43.48	14.19	48.89	13.02	54.61	12.08
Khushab	Kabirwala	6633	354.08	57.58	57.05	15.95	73.36	9.74	51.68	17.03	52.99	13.48	57.70	12.19	61.29	12.82
	Khanewal	7891	331.34	63.27	52.91	17.34	73.68	9.36	47.17	16.61	47.70	14.64	53.46	12.89	56.42	12.74
	Mianchannu	6955	348.54	58.32	57.02	16.40	75.04	9.21	48.25	16.85	51.61	13.49	55.85	12.23	60.77	11.81
Lahore	Khushab	9642	330.78	72.25	50.09	17.71	73.71	11.14	49.66	17.02	46.29	15.86	51.19	13.98	59.84	13.44
	Noorpurthal	2059	352.04	58.34	53.00	15.47	71.56	9.83	55.32	15.94	51.45	12.97	58.55	11.87	62.15	12.11
	Quaidabad	1946	329.33	62.51	48.63	15.48	71.77	10.20	50.09	15.82	47.36	13.16	51.96	13.06	59.52	13.02
Layyah	Cantt	69454	335.31	68.40	53.80	16.38	69.99	11.22	49.19	16.28	51.32	15.21	51.30	14.52	59.71	12.40
	Lahore City	36488	336.08	65.61	53.69	16.44	70.12	10.89	48.56	16.13	50.42	15.05	53.44	13.38	59.85	12.06
	Chaubara	1321	319.60	73.65	48.76	19.28	71.01	10.71	50.17	17.23	47.22	14.89	50.72	14.74	51.74	15.56
Lodhran	Karorlalsan	5795	361.49	63.28	59.27	17.91	77.40	9.26	53.84	17.03	52.90	14.72	59.06	12.19	59.02	12.78
	Layyah	10085	367.93	70.56	58.91	18.52	80.03	9.58	56.55	17.95	52.87	15.96	60.21	13.41	59.36	13.01
	Dunyapur	3825	349.12	61.95	55.77	17.55	70.16	11.88	48.91	15.74	54.62	13.59	57.37	14.02	62.30	12.51
Mandi	Karorpacca	3017	373.60	60.03	65.75	15.98	74.99	8.41	51.73	17.08	53.06	15.09	64.31	11.35	63.76	11.98
	Lodhran	4732	397.20	58.60	67.38	15.60	78.55	9.05	57.77	18.18	59.93	15.07	67.89	11.88	65.67	11.71
	Malikwal	4372	314.98	62.87	51.86	17.26	67.81	10.72	43.18	14.28	45.82	14.39	48.64	12.87	57.69	12.50

Bahaudin	Mandibahuddin	8396	320.75	62.16	53.38	16.33	69.22	9.91	42.79	14.68	45.00	14.33	52.36	12.71	58.00	12.26
	Phalia	6337	323.27	62.44	51.01	17.33	73.03	9.96	42.02	13.76	47.93	14.78	51.77	12.76	57.50	12.07
Mianwali	Isa Khel	3743	350.37	61.90	54.27	16.21	71.61	10.66	56.55	17.37	51.77	15.31	56.37	13.07	59.80	12.23
	Mianwali	8547	352.18	59.02	54.95	16.75	73.16	10.33	53.34	15.41	51.48	13.69	57.02	12.60	62.24	11.84
	Piplan	4200	350.31	61.06	54.14	16.13	74.16	9.50	51.43	17.02	52.73	15.34	56.20	13.40	61.64	12.07
Multan	Jalalpur Pirwala	2494	402.19	57.88	70.71	13.47	77.24	8.25	58.39	15.30	59.84	14.12	66.30	11.46	69.72	12.29
	Multan	30628	373.64	63.14	64.01	15.85	76.67	9.89	48.23	15.78	59.46	15.12	60.28	12.71	64.99	12.49
	Multan City	23	313.83	37.52	48.65	16.59	71.96	6.66	39.30	10.77	45.83	5.24	50.65	16.86	57.43	8.93
	Multansaddar	37	403.62	32.52	72.30	8.59	79.05	6.69	58.30	12.03	55.86	8.14	66.14	9.24	71.97	8.76
	Shujabad	4924	394.20	65.89	66.90	17.06	76.40	10.62	57.62	15.97	62.90	15.37	63.99	13.63	66.38	12.85
Muzafargarh	Alipur	3593	458.09	41.53	78.38	9.40	83.86	6.64	70.67	16.05	73.52	12.15	75.09	8.62	76.57	8.76
	Jatoi	4019	436.40	50.16	73.29	12.80	81.54	7.37	66.84	15.68	72.80	12.02	70.79	10.19	71.15	10.14
	Kot Adu	10477	419.39	58.44	71.98	14.82	80.70	8.12	58.39	19.75	68.96	13.37	69.51	10.28	69.84	11.62
	Muzaffargarh	11515	442.24	62.35	75.14	15.37	83.72	7.34	63.94	19.87	72.25	12.79	73.11	11.20	74.08	12.60
Nankana Sahib	Nankana Sahib	8346	310.90	68.42	48.89	18.15	69.01	11.07	46.23	16.74	43.98	14.17	50.53	13.42	52.25	13.95
		3326	328.97	60.87	53.74	17.01	70.42	9.45	51.29	15.85	45.49	12.88	54.14	11.94	53.89	11.58
	Sangla Hill	3173	314.83	61.22	50.09	16.27	70.24	10.41	52.49	15.84	40.50	13.02	50.16	12.67	51.34	12.08
	Shah Kot	3109	346.96	61.09	56.10	16.37	72.96	9.68	58.00	16.32	48.56	14.51	55.87	12.76	55.47	11.34
Narowal	Narowal	8665	323.43	60.48	51.62	17.43	72.47	10.36	46.44	16.70	44.17	13.94	51.96	13.04	56.77	13.07
	Shakarghar	10455	359.00	65.94	59.71	16.77	74.41	10.59	54.03	17.30	51.43	15.27	57.96	13.95	61.46	13.84
	Zafarwal	7505	338.98	65.66	55.26	18.95	71.32	10.15	50.80	17.16	49.22	16.13	55.11	14.62	57.28	13.65
Okara	Depalpur	10236	318.76	68.56	50.64	18.34	73.85	10.63	41.19	14.41	43.90	16.08	52.63	13.60	56.55	13.50
	Okara	11582	327.52	68.46	52.90	17.64	73.89	11.10	42.60	14.49	48.65	16.25	50.85	13.74	58.61	13.15
	Renala Khurd	5128	310.43	61.61	50.79	17.85	71.57	10.62	38.49	12.71	44.15	14.52	49.51	12.71	55.92	12.89
Pakpattan	Arifwala	6703	327.40	58.81	49.83	16.77	72.68	9.67	46.01	14.58	45.96	13.40	52.68	12.56	60.23	11.19
	Pakpattan	7695	354.57	62.59	56.55	16.60	75.13	9.85	50.92	15.76	50.78	14.58	59.07	12.22	62.12	12.06
Rahim Yar Khan	Khanpur	7003	375.13	56.64	60.82	15.33	78.29	8.35	55.82	16.47	54.08	14.21	58.53	12.69	67.60	10.92
	Liaqatpur	5790	346.79	61.20	54.67	15.98	75.17	8.58	49.68	17.48	52.27	13.27	56.84	13.98	58.16	12.62
	Rahim Yar Khan	11557	322.07	62.47	48.31	15.90	72.01	9.35	49.85	16.07	47.66	14.76	48.62	13.87	55.62	11.32
	Sadiqabad	6591	326.00	57.44	48.77	15.34	76.03	9.37	46.69	15.80	44.81	13.94	49.08	11.88	60.62	10.33
Rajanpur	Jampur	4746	380.65	52.52	64.60	15.16	79.50	7.56	52.88	14.38	56.53	12.06	62.49	11.86	64.64	11.61
	Rajanpur	4005	374.65	53.86	62.68	17.06	80.30	7.89	52.79	14.19	56.36	12.37	58.83	12.82	63.69	11.94
	Rojhan	618	392.74	31.04	65.33	12.06	78.60	6.99	58.51	10.80	56.31	8.05	67.51	8.67	66.47	12.11
Rawalpindi	Gujar Khan	10762	320.64	60.29	51.05	16.75	66.78	10.05	46.27	15.99	46.75	14.09	52.57	13.10	57.23	12.25
	Kahuta	2979	291.79	59.68	45.71	16.34	62.95	10.26	37.35	13.93	42.31	13.79	48.66	13.17	54.81	13.05
	Kallar Syedan	3430	316.99	56.30	51.91	15.47	65.33	10.05	43.74	14.12	48.10	13.22	52.00	12.55	55.91	13.05
	Kotlisattian	1543	293.38	54.76	44.48	16.23	63.04	10.38	40.45	14.06	41.15	11.54	50.32	14.82	53.94	12.58
	Murree	2428	298.32	58.82	48.63	15.96	61.45	10.14	42.11	14.09	40.43	12.79	49.96	13.71	55.74	12.23
	Rawalpindi	18885	301.70	59.44	50.29	17.20	63.54	11.11	40.71	14.07	42.68	13.08	49.19	12.92	55.30	12.02

	Taxila	3105	297.25	55.77	45.81	15.88	64.74	10.71	37.97	13.59	42.41	12.67	50.95	11.67	55.38	11.74
Sahiwal	Chichawatni	10733	375.42	63.74	60.50	16.66	77.73	9.83	60.34	16.55	54.20	14.28	58.75	13.73	63.90	12.93
	Sahiwal	14723	364.97	72.81	58.48	18.54	76.74	10.77	56.14	17.91	49.77	15.27	58.46	14.11	65.38	14.46
Sargodha	Bhalwal	10317	379.96	62.98	65.04	17.23	77.18	9.40	59.46	17.03	55.60	14.08	61.57	13.10	61.11	12.20
	Sahiwal	3884	393.07	54.95	66.19	14.64	77.70	7.90	62.78	17.03	60.79	11.54	63.78	10.65	61.83	10.43
	Sargodha	16840	362.20	63.69	61.49	17.62	75.40	10.13	56.73	16.72	50.76	14.23	58.16	12.33	59.65	12.04
	Shahpur	4013	377.44	56.50	60.66	15.73	77.85	8.76	58.27	17.01	59.25	11.09	61.88	12.47	59.53	13.10
	Sillwali	3519	369.73	62.85	61.89	17.05	77.50	9.53	55.66	16.96	51.56	14.47	61.40	11.01	61.73	11.66
Sheikhupura	Ferozwala	4330	319.58	60.02	51.94	15.72	67.39	9.89	42.66	15.38	48.18	14.56	51.82	14.22	57.60	11.91
	Muridke	6051	335.91	66.00	56.03	18.52	71.02	12.28	44.59	17.34	48.70	14.70	55.41	14.47	60.16	13.80
	Sharaqpur	2185	331.76	60.34	55.76	16.81	72.50	9.90	43.55	14.21	46.65	14.88	52.81	13.90	60.48	13.37
	Sheikhupura	17725	343.72	62.21	58.24	16.48	72.28	9.85	46.15	15.13	50.10	14.51	56.14	13.24	60.82	12.96
Sialkot	Daska	12342	325.74	58.31	50.22	16.07	73.24	10.16	45.83	16.25	48.10	12.43	53.56	12.75	54.79	10.96
	Pasrur	11936	329.03	59.67	50.95	16.13	75.36	9.38	44.53	15.32	48.21	14.04	53.07	11.45	56.91	12.90
	Sambrial	5594	321.77	63.65	52.58	17.55	71.18	9.84	43.74	16.06	48.19	14.56	50.11	11.83	55.98	13.32
	Shah Kot	22233	315.78	58.47	51.35	15.84	69.13	9.93	43.49	15.34	46.11	13.36	50.53	11.93	55.17	12.37
T.T Singh	Gojra	8274	354.48	67.57	53.12	17.07	77.02	10.48	55.62	17.26	51.48	14.38	54.12	13.51	63.11	12.00
	Kamalia	7116	345.85	70.51	52.01	18.27	78.71	10.59	52.50	17.38	48.61	14.47	53.70	13.79	60.33	12.67
	Toba Tek Singh	9850	355.58	63.20	52.00	15.69	78.55	9.82	54.75	16.11	51.89	13.94	54.22	13.48	64.17	11.87
Vehari	Burewala	9771	364.91	69.15	55.90	17.02	77.94	9.48	58.25	17.32	52.03	15.20	55.86	13.77	64.92	12.06
	Mailsi	6661	348.22	69.13	50.52	17.69	77.89	10.04	53.47	17.23	52.23	14.29	51.46	14.13	62.65	12.40
	Vehari	7829	347.78	69.22	53.11	16.55	76.64	10.54	52.59	17.02	51.27	14.85	51.34	13.83	62.83	13.09

Annexure 9

Table A9

Chapters/Areas of Content to be considered by Teacher Training by Districts

Sr.#	District	Science	Maths	English	Urdu	Islamiat
1	Hafizabad	3,6,10,12	3,5,6,7,8,9,10	2,3	4	
2	Jhang	3,6,10,12	5,7,9,10	3	4	
3	Lodhran	10,12	3,5,7,8,9,10	1,2,3	4	
4	Pakpattan	2,3,6,10,12	3,5,6,7,8,9	12,3		
5	Rajanpur	1,3,4,5,6,7,10,12	1,2,3,4,5,6,7,8,9,10,11	1,2,3,4,5	1,2,3,4	2,3,4
6	Rawalpindi	1,3,4,5,6,7,10,12	1,2,3,4,5,6,7,8,9,10,11	1,2,3,4,5	1,2,3,4	2,3,4
7	Faisalabad	3,5,10,12	1,6,9	2,3		
8	Jehlum	3,4,5,10,12	1,6,9	2,3	4	3
9	Kasur	3,4,5,10,12	1,6,9,10	2,3		
10	Mianwali	3,5,10,12	1,6,9	2,3		
11	Narowal	3,4,5,10,12	1,6,9	2,3	4	
12	Sahiwal	3,5,12	1,6,9	3		
13	Bhakkar	3,5,6,8,10,12	3,6,7	2,3		3
14	Chiniot	5,6,8,10,12	3,7	2,3		3
15	Gujrat	5,8,10,12	3,6,7	2,3	4	3
16	Khanewal	5,8,10,12	2,3,6,7	2,3		
17	Muzafargarh	10	7		4	
18	Sialkot	5,8,10,12	3,6,7	2,3		
19	DG Khan	3,4,5,6,7,8,10,12	1,2,3,4,5,6,7,9,10,11	1,3,4,5	1,2,3	2,3,4
20	Khushab	4,7,8,10,12	3,4,5,6,9	3,5		
21	Lahore	4,7,8,10,12	3,4,5,6,9,11	3,5		
22	Rahim Yar Khan	4,7,8,10,12	3,4,5,6,9,11	3,5	4	
23	Toba Tek Singh	2,3,4,5,6,7,8,10,12	1,2,3,4,5,6,7,9,10,11	3,4,5	1,2,3	1,2,3,4
24	Vehari	3,4,5,6,7,8,10,12	1,2,3,4,5,6,7,9,10,11	3,4,5	1,2,3	1,3,4
25	Attock	4,5,6,8,10,12	3,6,7,9,10	2,3		
26	Bahawalpur	4,6,8,9,10,12	4,6,7,9,10	3		
27	Gujranwala	4,6,8,10,12	6,9,10,11	3		
28	Layyah	4,6,8,10,12	6,9,10	2,3		
29	Nankanasahib	4,5,6,8,10,12	3,6,7,9,10	2,3	4	
30	Sargodah	4,6,8,10,12	6,9,10	1,3		
31	Bahawalnagar	3,5,7,10,11,12	1,2,3,4,5,8	1,2,3,4	1,2,3	1,2,3,4
32	Chakwal	3,4,6,7,8,9,10,11,12	1,2,3,4,5,8,10,11	1,2,3	1,2,3	2,3,4
33	Mandi Bahuddin	7,8,10,11,12	3,4,5,8,10	2,3		
34	Multan	10,12	3,5,8,10	3		
35	Okara	7,8,10,11,12	3,4,5,6,8,10	2,3		
36	Sheikhpura	3,4,5,7,8,9,10,11,12	1,2,3,4,5,6,8,10	2,3,4	1,2,3	1,2,3,4

Science: Ch1 = Human organ system, Ch2 = Cell Division, Ch3 = Biotechnology, Ch4 = Pollution and their effects on environment, Ch5 = Chemical reaction, Ch6 = Acids and Bases, Ch7 = Force and pressure, Ch8 = Measurement of physical quantities, Ch9 = Source and effects of heat energy, Ch10 = Lenses, Ch11 = Electricity in action, Ch12 = Exploring Space

Math: Ch1=Operations on sets, Ch2=Real Numbers, Ch3=Number system, Ch4=Financial Arithmetic, Ch5=Polynomials, Ch6=Factorization, Ch7=Fundamentals of Geometry, Ch8= Demonstrative Geometry, Ch9=Practical Geometry, Ch10=Information Handling, Ch11=Areas and Volume

English: Ch1=Lexical, Ch2=Thinking Skill, Ch3=Writing Skill, Ch4=Grammar, Ch5=Language

Urdu: Ch1=Grammar, Ch2=Lesson Reading, Ch3=Poem Reading, Ch4=Writing Skill

Islamiat: Ch1=Amaniyaat o Ibadaat, Ch2=Usway-e-Hussna, Ch3=Ikhlak o Aadaab, Ch4= Mashahir Islaam

Annexure 9 simplifies tables 3.4 to 3.8. Chapters from all the subject In which students performed poorly are listed in this annexure.

Annexure 10

Table 10a

SLO wise Analysis of Scores in Social Studies

District	Social Studies SLOs Number																	
	1	2	3	4	5	6	7	10	11	12	13	14	15	16	17	22	23	24
	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Hafizabad	0.93	0.94	0.79	0.41	0.84	0.76	0.67	0.62		0.80	0.74	0.54	0.42	0.47	0.73	0.74	0.33	0.31
Jhang	0.96	0.97	0.88	0.55	0.88	0.87	0.77	0.66		0.89	0.83	0.65	0.57	0.76	0.84	0.75	0.32	0.54
Lodhran	0.84	0.90	0.79	0.59	0.77	0.74	0.83	0.67		0.83	0.76	0.67	0.50	0.65	0.77	0.70	0.38	0.41
Pakpattan	0.94	0.94	0.84	0.39	0.83	0.74	0.64	0.57		0.82	0.74	0.51	0.42	0.51	0.73	0.74	0.37	0.30
Rajanpur	0.01	0.01	0.03	0.62	0.11	0.01	0.08	0.11		0.45	0.04	0.02	0.19	0.69	0.40	0.06	0.33	0.51
Rawalpindi	0.04	0.15	0.23	0.34	0.08	0.07	0.32	0.08		0.25	0.07	0.36	0.25	0.23	0.30	0.13	0.45	0.31
Faisalabad	0.97		0.36	0.55	0.55	0.34	0.77	0.54		0.41	0.71	0.31	0.83	0.42	0.77	0.77	0.77	0.61
Jehlum	0.94		0.37	0.47	0.55	0.37	0.73	0.47		0.48	0.74	0.20	0.78	0.41	0.74	0.70	0.74	0.60
Kasur	0.96		0.36	0.51	0.57	0.35	0.76	0.53		0.48	0.70	0.28	0.81	0.42	0.77	0.72	0.73	0.58
Mianwali	0.95		0.35	0.72	0.65	0.27	0.81	0.61		0.60	0.64	0.31	0.85	0.54	0.83	0.81	0.78	0.66
Narowal	0.95		0.38	0.59	0.61	0.41	0.75	0.54		0.54	0.77	0.18	0.82	0.42	0.81	0.78	0.83	0.64
Sahiwal	0.98		0.38	0.63	0.61	0.36	0.83	0.59		0.57	0.72	0.30	0.85	0.49	0.82	0.80	0.81	0.68
Bhakkar	0.97		0.56	0.78	0.93	0.57	0.63	0.71	0.56	0.66	0.79		0.71	0.69	0.55	0.79	0.88	0.88
Chiniot	0.96		0.55	0.68	0.92	0.61	0.62	0.65	0.48	0.58	0.78		0.70	0.61	0.44	0.79	0.86	0.86
Gujrat	0.95		0.53	0.67	0.89	0.52	0.47	0.60	0.42	0.45	0.67		0.51	0.56	0.34	0.76	0.80	0.82
Khanewal	0.96		0.56	0.74	0.90	0.58	0.58	0.63	0.53	0.55	0.75		0.60	0.61	0.44	0.79	0.82	0.86
Muzafargarh	0.98		0.60	0.56	0.94	0.62	0.75	0.79	0.68	0.81	0.87		0.82	0.72	0.63	0.89	0.92	0.91
Sialkot	0.94		0.54	0.63	0.87	0.53	0.51	0.63	0.42	0.45	0.68		0.50	0.55	0.35	0.77	0.80	0.83
D.g.khan	0.15		0.31	0.02	0.04	0.70	0.09	0.47	0.07	0.01	0.94		0.05	0.04	0.07	0.26	0.31	0.04
Khushab	0.53		0.51	0.73	0.57	0.00	0.48	0.33	0.81	0.00	0.86		0.44	0.79	0.45	0.42	0.32	0.78
Lahore	0.48		0.51	0.69	0.56	0.55	0.51	0.33	0.71	0.86	0.86		0.59	0.73	0.44	0.39	0.39	0.72
R.y.khan	0.48		0.49	0.73	0.61	0.61	0.55	0.35	0.79	0.91	0.90		0.60	0.83	0.50	0.51	0.35	0.80
T.t.singh	0.12		0.31	0.05	0.04	0.45	0.16	0.31	0.13	0.03	0.88		0.14	0.07	0.16	0.25	0.55	0.05
Vehari	0.12		0.31	0.04	0.04	0.47	0.16	0.36	0.12	0.02	0.89		0.12	0.07	0.13	0.21	0.48	0.06
Attock	0.95		0.42	0.79	0.78	0.60	0.68	0.78	0.34	0.83	0.17		0.76	0.60	0.55	0.70	0.80	0.74
Bahawalpur	0.95		0.42	0.79	0.77	0.62	0.64	0.71	0.39	0.83	0.16		0.80	0.56	0.53	0.68	0.76	0.73
Gujranwala	0.95		0.44	0.82	0.78	0.55	0.71	0.78	0.41	0.83	0.28		0.80	0.59	0.54	0.74	0.83	0.78
Layyah	0.95		0.44	0.83	0.81	0.66	0.72	0.77	0.44	0.86	0.18		0.86	0.65	0.54	0.77	0.80	0.78
Nankana	0.92		0.39	0.78	0.75	0.60	0.63	0.69	0.37	0.82	0.15		0.80	0.55	0.53	0.68	0.76	0.73

District	Social Studies SLOs Number																	
	1	2	3	4	5	6	7	10	11	12	13	14	15	16	17	22	23	24
	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Sargodha	0.96		0.46	0.84	0.81	0.59	0.73	0.79	0.47	0.87	0.25		0.85	0.64	0.53	0.71	0.82	0.78
Bahawalnagar	0.94		0.24	0.04	0.27	0.02	0.89	0.16	0.08	0.01	0.25		0.44	0.10	0.47	0.07	0.06	0.30
Chakwal	0.72		0.09	0.18	0.09	0.30	0.18	0.20	0.23	0.19	0.05		0.09	0.56	0.26	0.39	0.03	0.22
M. Baha-ud-din	0.92		0.39	0.62	0.40	0.78	0.74	0.39	0.76	0.88	0.59		0.32	0.60	0.60	0.35	0.88	0.36
Multan	0.94		0.49	0.75	0.57	0.65	0.86	0.60	0.83	0.88	0.63		0.35	0.70	0.66	0.26	0.90	0.45
Okara	0.92		0.38	0.68	0.36	0.74	0.72	0.37	0.70	0.87	0.54		0.33	0.58	0.59	0.29	0.87	0.34
Sheikhpura	0.36		0.09	0.13	0.52	0.17	0.40	0.25	0.47	0.12	0.47		0.23	0.13	0.40	0.35	0.26	0.15

District	Social Studies SLOs Number																	
	25	26	27	29	32	33	34	35	36	37	38	39	40	41	42	43	44	45
	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Hafizabad	0.75	0.58	0.60	0.76	0.52	0.73	0.22	0.62	0.73	0.63	0.76	0.58	0.75	0.33	0.13	0.72	0.22	0.81
Jhang	0.85	0.70	0.78	0.84	0.68	0.82	0.48	0.80	0.83	0.81	0.83	0.72	0.85	0.26	0.13	0.82	0.52	0.90
Lodhran	0.86	0.60	0.66	0.73	0.14	0.82	0.38	0.44	0.81	0.77	0.83	0.70	0.82	0.24	0.12	0.81	0.45	0.86
Pakpattan	0.72	0.57	0.57	0.75	0.13	0.76	0.17	0.63	0.73	0.62	0.69	0.53	0.75	0.33	0.11	0.73	0.24	0.81
Rajanpur	0.06	0.26	0.73	0.05	0.67	0.01	0.40	0.36	0.03	0.06	0.80	0.70	0.83	0.08	0.20	0.07	0.44	0.04
Rawalpindi	0.55	0.15	0.28	0.04	0.71	0.02	0.57	0.19	0.04	0.08	0.40	0.37	0.36	0.14	0.10	0.07	0.24	0.48
Faisalabad	0.67	0.32	0.47	0.48	0.81	0.29	0.74	0.31	0.58	0.58	0.42	0.44	0.61	0.84	0.38	0.90	0.53	0.73
Jehlum	0.69	0.34	0.48	0.56	0.77	0.32	0.77	0.35	0.58	0.54	0.42	0.34	0.62	0.82	0.43	0.88	0.51	0.72
Kasur	0.64	0.33	0.49	0.54	0.76	0.32	0.76	0.34	0.58	0.56	0.41	0.42	0.60	0.82	0.40	0.87	0.54	0.72
Mianwali	0.72	0.36	0.51	0.65	0.85	0.35	0.78	0.41	0.70	0.68	0.47	0.62	0.77	0.84	0.61	0.92	0.57	0.79
Narowal	0.70	0.36	0.60	0.65	0.84	0.39	0.81	0.46	0.66	0.64	0.57	0.49	0.72	0.78	0.48	0.89	0.47	0.70
Sahiwal	0.78	0.36	0.59	0.71	0.89	0.38	0.80	0.41	0.73	0.68	0.52	0.60	0.73	0.86	0.48	0.93	0.63	0.83
Bhakkar	0.81	0.63	0.73	0.05	0.85	0.77	0.94	0.87	0.20	0.71	0.92	0.67	0.39	0.78	0.67	0.78	0.46	0.76
Chiniot	0.79	0.61	0.71	0.10	0.79	0.78	0.91	0.85	0.16	0.70	0.90	0.65	0.44	0.79	0.61	0.76	0.42	0.72
Gujrat	0.76	0.50	0.62	0.06	0.77	0.66	0.89	0.80	0.16	0.58	0.84	0.61	0.29	0.65	0.52	0.65	0.36	0.58
Khanewal	0.78	0.55	0.62	0.06	0.79	0.73	0.91	0.82	0.14	0.68	0.90	0.69	0.35	0.76	0.60	0.71	0.41	0.66
Muzafargarh	0.90	0.69	0.73	0.05	0.90	0.87	0.94	0.87	0.21	0.81	0.94	0.85	0.45	0.86	0.75	0.88	0.45	0.85
Sialkot	0.75	0.48	0.59	0.08	0.75	0.67	0.89	0.79	0.13	0.57	0.84	0.61	0.29	0.64	0.49	0.65	0.35	0.57
D.g.khan	0.70	0.21	0.84	0.00	0.17	0.05	0.32	0.44	0.15	0.03	0.08	0.90	0.39	0.04	0.05	0.82	0.11	0.05
Khushab	0.53	0.47	0.70	0.59	0.58	0.42	0.32	0.64	0.45	0.68	0.80	0.86	0.26	0.77	0.75	0.70	0.48	0.72
Lahore	0.54	0.48	0.61	0.57	0.55	0.45	0.30	0.64	0.36	0.60	0.75	0.82	0.27	0.72	0.72	0.59	0.42	0.64
R.y.khan	0.72	0.51	0.66	0.70	0.57	0.53	0.32	0.69	0.35	0.68	0.79	0.86	0.28	0.77	0.77	0.75	0.48	0.74
T.t.singh	0.59	0.28	0.69	0.00	0.14	0.14	0.53	0.38	0.10	0.02	0.09	0.86	0.27	0.08	0.09	0.69	0.24	0.12
Vehari	0.66	0.28	0.69	0.00	0.16	0.13	0.59	0.38	0.11	0.02	0.11	0.87	0.26	0.08	0.10	0.70	0.23	0.11
Attock	0.64	0.57	0.57	0.60	0.79	0.12	0.75	0.80	0.32	0.74	0.51	0.79	0.48	0.80	0.09	0.89	0.41	0.84

District	Social Studies SLOs Number																	
	25	26	27	29	32	33	34	35	36	37	38	39	40	41	42	43	44	45
	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Bahawalpur	0.64	0.45	0.51	0.58	0.80	0.12	0.72	0.78	0.26	0.75	0.39	0.80	0.41	0.81	0.11	0.88	0.24	0.81
Gujranwala	0.63	0.56	0.59	0.65	0.86	0.11	0.78	0.83	0.33	0.74	0.56	0.84	0.42	0.82	0.07	0.91	0.37	0.86
Layyah	0.64	0.50	0.55	0.67	0.84	0.11	0.75	0.82	0.31	0.78	0.49	0.84	0.46	0.85	0.09	0.91	0.36	0.85
Nankana	0.63	0.48	0.52	0.56	0.78	0.13	0.73	0.77	0.27	0.71	0.44	0.76	0.40	0.78	0.09	0.88	0.26	0.82
Sargodha	0.61	0.55	0.60	0.63	0.85	0.10	0.79	0.85	0.23	0.76	0.57	0.87	0.47	0.86	0.09	0.92	0.40	0.86
Bahawalnagar	0.07	0.25	0.70	0.09	0.05	0.10	0.02	0.42	0.13	0.02	0.03	0.73	0.86	0.10	0.14	0.04	0.13	0.83
Chakwal	0.57	0.10	0.08	0.03	0.69	0.54	0.02	0.16	0.05	0.45	0.14	0.08	0.15	0.48	0.06	0.12	0.50	0.42
M. Baha-ud-din	0.73	0.58	0.67	0.52	0.84	0.66	0.92	0.62	0.32	0.71	0.86	0.59	0.76	0.38	0.39	0.78	0.52	0.72
Multan	0.78	0.57	0.72	0.64	0.87	0.78	0.93	0.72	0.33	0.68	0.91	0.68	0.83	0.65	0.56	0.80	0.64	0.81
Okara	0.73	0.55	0.64	0.49	0.83	0.65	0.92	0.57	0.29	0.77	0.86	0.51	0.75	0.44	0.39	0.76	0.48	0.70
Sheikhupura	0.23	0.31	0.30	0.11	0.25	0.43	0.06	0.42	0.35	0.07	0.16	0.24	0.72	0.17	0.12	0.36	0.36	0.67

Table 10b

SLO wise Analysis of Scores in Mathematics

District	Mathematics SLOs Number																	
	1	2	3	4	5	7	8	9	10	13	14	15	16	21	23	24	25	26
	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Hafizabad			0.81	0.72		0.69		0.61		0.59	0.57			0.80	0.90			0.36
Jhang			0.89	0.84		0.78		0.73		0.61	0.68			0.88	0.94			0.50
Lodhran			0.85	0.86		0.77		0.70		0.61	0.64			0.86	0.93			0.44
Pakpattan			0.81	0.73		0.69		0.57		0.63	0.56			0.81	0.92			0.29
Rajanpur			0.02	0.06		0.15		0.11		0.62	0.68			0.03	0.03			0.20
Rawalpindi			0.04	0.10		0.18		0.17		0.60	0.52			0.04	0.04			0.20
Faisalabad				0.75	0.48	0.31					0.66				0.58	0.55		
Jehlum				0.73	0.46	0.32					0.63				0.50	0.54		
Kasur				0.69	0.46	0.26					0.69				0.53	0.50		
Mianwali				0.00	0.49	0.31					0.67				0.50	0.54		
Narowal				0.78	0.50	0.37					0.65				0.51	0.57		
Sahiwal				0.80	0.55	0.32					0.72				0.66	0.61		
Bhakkar						0.59		0.59			0.61	0.71	0.47		0.59		0.86	
Chiniot						0.67		0.67			0.65	0.77	0.54		0.58		0.92	
Gujrat						0.59		0.59			0.53	0.62	0.39		0.53		0.89	
Khanewal						0.51		0.51			0.46	0.61	0.34		0.58		0.83	

District	Mathematics SLOs Number																	
	1	2	3	4	5	7	8	9	10	13	14	15	16	21	23	24	25	26
	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Muzafargarh						0.68		0.68			0.66	0.83	0.45		0.70		0.85	
Sialkot						0.60		0.60			0.51	0.60	0.41		0.55		0.89	
D.g.khan	0.68					0.93					0.08	0.06			0.73	0.07	0.45	
Khushab	0.69					0.92					0.70	0.67			0.66	0.72	0.39	
Lahore	0.55					0.93					0.71	0.63			0.65	0.65	0.40	
R.y.khan	0.62					0.92					0.72	0.66			0.65	0.69	0.36	
T.t.singh	0.74					0.93					0.14	0.08			0.73	0.08	0.46	
Vehari	0.73					0.94					0.12	0.07			0.72	0.08	0.47	
Attock		0.59					0.72		0.79		0.17				0.74	0.89	0.53	
Bahawalpur		0.48					0.60		0.62		0.33				0.72	0.79	0.58	
Gujranwala		0.67					0.76		0.81		0.50				0.76	0.90	0.63	
Layyah		0.63					0.68		0.74		0.44				0.72	0.81	0.54	
Nankana		0.65					0.71		0.79		0.45				0.71	0.88	0.55	
Sargodha		0.75					0.77		0.84		0.51				0.78	0.92	0.65	
Bahawalnagar	0.04					0.74	0.75		0.10		0.43				0.44	0.00	0.30	
Chakwal	0.40					0.69	0.10		0.25		0.30				0.06	0.79	0.55	
M. Baha-ud-din	0.76					0.66	0.67		0.52		0.51				0.66	0.85	0.28	
Multan	0.80					0.72	0.71		0.68		0.59				0.72	0.89	0.34	
Okara	0.68					0.57	0.62		0.53		0.53				0.66	0.82	0.25	
Sheikhpura	0.05					0.65	0.68		0.14		0.43				0.41	0.06	0.22	

District	Mathematics SLOs Number																	
	27	28	29	32	34	35	37	38	39	42	43	44	45	46	47	48	50	51
	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Hafizabad	0.36	0.87	0.76	0.23	0.36		0.21	0.30		0.45	0.52		0.40		0.61			
Jhang	0.56	0.91	0.86	0.37	0.53		0.30	0.40		0.64	0.70		0.56		0.68			
Lodhran	0.46	0.90	0.84	0.34	0.48		0.28	0.34		0.62	0.64		0.53		0.69			
Pakpattan	0.45	0.88	0.78	0.22	0.40		0.22	0.25		0.44	0.51		0.36		0.61			
Rajanpur	0.44	0.03	0.07	0.25	0.34		0.35	0.30		0.22	0.12		0.36		0.43			
Rawalpindi	0.35	0.06	0.12	0.35	0.25		0.19	0.26		0.29	0.20		0.35		0.40			
Faisalabad	0.67	0.70	0.85		0.72	0.69	0.76			0.72			0.58	0.18			0.50	0.55
Jhelum	0.63	0.69	0.82		0.70	0.62	0.73			0.72			0.58	0.18			0.54	0.56
Kasur	0.63	0.68	0.82		0.68	0.63	0.70			0.68			0.52	0.18			0.47	0.50
Mianwali	0.72	0.73	0.86		0.72	0.69	0.79			0.72			0.59	0.23			0.53	0.55
Narowal	0.66	0.72	0.83		0.70	0.68	0.74			0.72			0.62	0.22			0.61	0.62
Sahiwal	0.71	0.75	0.89		0.76	0.73	0.81			0.78			0.67	0.32			0.60	0.64

District	Mathematics SLOs Number																	
	27	28	29	32	34	35	37	38	39	42	43	44	45	46	47	48	50	51
	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Bhakkar	0.37	0.85			0.79		0.50		0.41	0.52	0.58	0.13	0.62					
Chiniot	0.38	0.88			0.85		0.48		0.40	0.63	0.70	0.22	0.68					
Gujrat	0.33	0.84			0.70		0.33		0.23	0.43	0.49	0.16	0.49					
Khanewal	0.32	0.82			0.72		0.34		0.29	0.57	0.50	0.18	0.51					
Muzafargarh	0.38	0.91			0.80		0.31		0.54	0.70	0.77	0.37	0.70					
Sialkot	0.31	0.87			0.71		0.00		0.24	0.44	0.51	0.17	0.50					
D.g.khan	0.84	0.91	0.07		0.43	0.78	0.77		0.09	0.06			0.03		0.11			
Khushab	0.79	0.90	0.77		0.42	0.75	0.74		0.28	0.65			0.05		0.20			
Lahore	0.75	0.88	0.76		0.40	0.69	0.71		0.28	0.65			0.03		0.25			
R.y.khan	0.79	0.88	0.77		0.40	0.73	0.74		0.25	0.70			0.04		0.18			
T.t.singh	0.83	0.93	0.07		0.42	0.78	0.80		0.13	0.07			0.03		0.19			
Vehari	0.81	0.92	0.06		0.43	0.77	0.77		0.14	0.08			0.03		0.19			
Attock	0.71	0.50	0.87		0.38	0.36		0.66		0.46			0.72			0.46	0.52	0.57
Bahawalpur	0.58	0.73	0.91		0.56	0.54		0.58		0.60			0.62			0.36	0.42	0.69
Gujranwala	0.74	0.73	0.89		0.53	0.41		0.68		0.54			0.76			0.04	0.59	0.67
Layyah	0.74	0.67	0.80		0.55	0.36		0.70		0.47			0.68			0.49	0.48	0.58
Nankana	0.70	0.69	0.87		0.46	0.37		0.65		0.46			0.71			0.44	0.49	0.58
Sargodha	0.72	0.74	0.92		0.56	0.39		0.72		0.56			0.81			0.54	0.58	0.68
Bahawalnagar	0.06	0.04	0.24		0.20	0.82		0.78		0.04			0.03			0.60	0.17	0.14
Chakwal	0.20	0.02	0.04		0.49	0.24		0.58		0.60			0.04			0.08	0.42	0.11
M. Baha-ud-din	0.43	0.83	0.28		0.23	0.76		0.73		0.72			0.56			0.48	0.50	0.43
Multan	0.51	0.86	0.34		0.27	0.80		0.75		0.80			0.67			0.62	0.63	0.58
Okara	0.34	0.80	0.20		0.18	0.74		0.70		0.73			0.56			0.47	0.48	0.42
Sheikhpura	0.07	0.06	0.26		0.17	0.74		0.69		0.05			0.05			0.54	0.19	0.15

District	Mathematics SLOs Number																	
	52	53	54	55	56	59	60	61	62	63	64	65	66	67	68	69	70	71
	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Hafizabad	0.70				0.19	0.20		0.30	0.58	0.52	0.35	0.55	0.47			0.55	0.55	0.72
Jhang	0.80				0.44	0.38		0.45	0.66	0.55	0.59	0.64	0.61			0.67	0.68	0.83
Lodhran	0.76				0.35	0.38		0.40	0.70	0.53	0.54	0.60	0.60			0.56	0.64	0.80
Pakpattan	0.71				0.27	0.64		0.31	0.57	0.52	0.36	0.48	0.45			0.55	0.52	0.75
Rajanpur	0.07				0.32	0.31		0.42	0.14	0.53	0.31	0.67	0.06			0.68	0.15	0.78
Rawalpindi	0.13				0.21	0.26		0.35	0.18	0.53	0.26	0.48	0.15			0.54	0.22	0.73
Faisalabad	0.66	0.45	0.77		0.28					0.30		0.49	0.39	0.72	0.72	0.72	0.46	0.54
Jehlum	0.63	0.49	0.75		0.24					0.29		0.51	0.44	0.67	0.69	0.67	0.44	0.51

District	Mathematics SLOs Number																	
	52	53	54	55	56	59	60	61	62	63	64	65	66	67	68	69	70	71
	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Kasur	0.60	0.41	0.73		0.22					0.25		0.43	0.33	0.66	0.67	0.66	0.40	0.50
Mianwali	0.66	0.53	0.79		0.33					0.35		0.55	0.48	0.70	0.72	0.70	0.48	0.50
Narowal	0.69	0.53	0.75		0.27					0.34		0.51	0.47	0.72	0.73	0.72	0.50	0.55
Sahiwal	0.74	0.54	0.84		0.40					0.38		0.56	0.48	0.80	0.78	0.80	0.54	0.58
Bhakkar	0.58	0.63	0.32	0.72			0.61		0.63	0.48		0.46		0.68	0.71	0.62	0.61	0.67
Chiniot	0.56	0.68	0.37	0.76			0.68		0.50	0.43		0.50		0.71	0.74	0.68	0.61	0.64
Gujrat	0.39	0.56	0.22	0.57			0.52		0.60	0.35		0.39		0.54	0.62	0.49	0.45	0.58
Khanewal	0.56	0.58	0.23	0.72			0.56		0.61	0.43		0.40		0.65	0.69	0.61	0.48	0.53
Muzafargarh	0.79	0.72	0.44	0.79			0.73		0.71	0.59		0.64		0.82	0.75	0.74	0.65	0.60
Sialkot	0.41	0.58	0.26	0.59			0.53		0.61	0.22		0.36		0.52	0.61	0.52	0.44	0.19
D.g.khan	0.41	0.46	0.09			0.36			0.53	0.48	0.15	0.63	0.06	0.05		0.71	0.56	0.11
Khushab	0.36	0.34	0.47			0.34			0.41	0.40	0.47	0.59	0.72	0.09		0.57	0.46	0.11
Lahore	0.39	0.35	0.43			0.35			0.34	0.36	0.44	0.55	0.59	0.10		0.55	0.43	0.11
R.y.khan	0.39	0.40	0.52			0.37			0.42	0.43	0.51	0.58	0.67	0.10		0.58	0.48	0.11
T.t.singh	0.34	0.36	0.15			0.34			0.46	0.44	0.19	0.65	0.08	0.08		0.61	0.51	0.11
Vehari	0.36	0.34	0.16			0.37			0.46	0.45	0.19	0.63	0.07	0.08		0.64	0.51	0.11
Attock	0.32	0.43				0.46	0.37		0.46	0.26		0.53	0.35	0.46	0.68		0.54	0.49
Bahawalpur	0.38	0.35				0.31	0.57		0.38	0.27		0.44	0.28	0.40	0.66		0.47	0.54
Gujranwala	0.45	0.08				0.36	0.55		0.51	0.39		0.60	0.46	0.48	0.72		0.60	0.35
Layyah	0.41	0.41				0.41	0.48		0.45	0.41		0.50	0.31	0.41	0.67		0.57	0.50
Nankana	0.34	0.41				0.36	0.46		0.43	0.30		0.52	0.32	0.43	0.67		0.48	0.52
Sargodha	0.45	0.51				0.37	0.55		0.53	0.39		0.59	0.46	0.51	0.74		0.61	0.58
Bahawalnagar	0.39	0.08	0.15			0.27	0.15		0.26	0.41		0.36	0.37	0.44	0.55	0.82	0.27	0.50
Chakwal	0.30	0.09	0.35			0.31	0.57		0.10	0.27		0.29	0.19	0.40	0.35	0.47	0.46	0.35
M. Baha-ud-din	0.36	0.58	0.40			0.18	0.41		0.32	0.23		0.60	0.35	0.42	0.42	0.79	0.41	0.56
Multan	0.49	0.70	0.54			0.24	0.51		0.44	0.38		0.66	0.38	0.45	0.52	0.82	0.53	0.60
Okara	0.36	0.55	0.38			0.25	0.37		0.30	0.22		0.58	0.36	0.41	0.40	0.78	0.41	0.56
Sheikhpura	0.31	0.12	0.21			0.22	0.15		0.28	0.30		0.34	0.37	0.47	0.47	0.78	0.31	0.50

Table 10c

SLO wise Analysis of Scores in Urdu

District	Urdu SLOs Number																			
	1.1	1.2	1.3	1.4	2.2	2.4	2.5	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	3.1	3.11	3.12	5.1
	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Attock	0.48	0.72	0.89	0.85	0.51	0.36	0.27	0.71	0.79	0.39	0.66	0.61	0.31	0.73	0.64	0.37	0.58	0.35	0.57	0.47
Gujranwala	0.48	0.80	0.92	0.89	0.56	0.48	0.38	0.79	0.90	0.62	0.79	0.74	0.54	0.87	0.76	0.53	0.64	0.49	0.68	0.54
Layyah	0.42	0.78	0.92	0.88	0.55	0.48	0.34	0.74	0.88	0.55	0.77	0.73	0.47	0.82	0.73	0.50	0.64	0.45	0.70	0.56
Nankana	0.46	0.72	0.89	0.85	0.61	0.54	0.39	0.61	0.78	0.37	0.65	0.56	0.28	0.70	0.63	0.28	0.52	0.36	0.52	0.61
Sargodah	0.06	0.09	0.16	0.35	0.48	0.43	0.41	0.12	0.41	0.18	0.11	0.06	0.22	0.07	0.14	0.41	0.04	0.19	0.11	0.51
Vehari	0.05	0.11	0.16	0.33	0.50	0.39	0.29	0.14	0.36	0.25	0.20	0.16	0.31	0.11	0.25	0.35	0.07	0.19	0.18	0.49
Bahawalnagar	0.74	0.75	0.64	0.43	0.55	0.56	0.40	0.84	0.76	0.47	0.51	0.55	0.65	0.70	0.34	0.57	0.68	0.62	0.86	0.49
Chakwal	0.65	0.73	0.61	0.43	0.48	0.48	0.31	0.83	0.71	0.41	0.38	0.54	0.61	0.68	0.35	0.58	0.64	0.63	0.83	0.41
Chiniot	0.68	0.73	0.64	0.42	0.57	0.60	0.40	0.83	0.67	0.42	0.43	0.53	0.61	0.69	0.35	0.58	0.62	0.64	0.86	0.51
Mandi bahaudin	0.85	0.75	0.63	0.44	0.54	0.56	0.40	0.86	0.80	0.51	0.52	0.71	0.75	0.77	0.38	0.65	0.66	0.63	0.85	0.49
Multan	0.69	0.75	0.66	0.47	0.49	0.54	0.34	0.86	0.78	0.49	0.44	0.65	0.69	0.76	0.41	0.67	0.71	0.67	0.89	0.44
Okara	0.73	0.80	0.70	0.47	0.64	0.64	0.46	0.89	0.80	0.57	0.53	0.62	0.73	0.82	0.39	0.69	0.73	0.71	0.90	0.53
Bahawalpur	0.40	0.64	0.82	0.94	0.56	0.56	0.40	0.66	0.74	0.69	0.50	0.62	0.71	0.72	0.65	0.76	0.75	0.65	0.40	0.53
Dg khan	0.37	0.63	0.82	0.93	0.62	0.62	0.50	0.62	0.69	0.65	0.47	0.67	0.66	0.69	0.58	0.73	0.68	0.64	0.32	0.64
Gujrat	0.53	0.51	0.79	0.92	0.54	0.54	0.35	0.57	0.63	0.45	0.36	0.49	0.60	0.56	0.49	0.61	0.69	0.44	0.27	0.53
Lahore	0.43	0.59	0.80	0.93	0.55	0.58	0.35	0.35	0.64	0.61	0.45	0.57	0.67	0.65	0.55	0.72	0.69	0.56	0.29	0.52
Mianwali	0.49	0.73	0.86	0.95	0.66	0.69	0.61	0.61	0.80	0.74	0.62	0.80	0.75	0.82	0.70	0.86	0.82	0.81	0.50	0.68
T.t singh	0.51	0.52	0.78	0.90	0.53	0.57	0.36	0.54	0.59	0.45	0.33	0.49	0.62	0.57	0.48	0.62	0.67	0.45	0.28	0.55
Jhang	0.09	0.42	0.20	0.11	0.58	0.61	0.56	0.42	0.46	0.62	0.69	0.09	0.55	0.80	0.07	0.39	0.09	0.21	0.66	0.62
Lodhran	0.86	0.61	0.77	0.70	0.53	0.49	0.43	0.62	0.65	0.48	0.45	0.55	0.50	0.69	0.55	0.73	0.75	0.38	0.55	0.59
Narowal	0.86	0.60	0.95	0.70	0.57	0.54	0.49	0.58	0.66	0.33	0.36	0.46	0.43	0.62	0.50	0.63	0.75	0.36	0.44	0.61
Pakpattan	0.85	0.63	0.96	0.71	0.51	0.44	0.46	0.65	0.70	0.49	0.49	0.59	0.50	0.69	0.53	0.69	0.73	0.42	0.51	0.55
Rajanpur	0.04	0.36	0.20	0.10	0.58	0.56	0.52	0.38	0.48	0.54	0.47	0.18	0.51	0.74	0.09	0.37	0.10	0.19	0.53	0.64
Rawalpindi	0.04	0.37	0.20	0.10	0.59	0.56	0.51	0.38	0.48	0.54	0.47	0.17	0.54	0.75	0.08	0.37	0.10	0.21	0.55	0.66
Bhakkar	0.79	0.61	0.87	0.43	0.57	0.54	0.38	0.65	0.13	0.24	0.78	0.67	0.59	0.58	0.56	0.47	0.82	0.62	0.39	0.52
Khanewal	0.83	0.60	0.89	0.42	0.55	0.54	0.38	0.64	0.11	0.14	0.81	0.63	0.57	0.57	0.53	0.49	0.70	0.59	0.53	0.53
Muzafargarh	0.81	0.64	0.88	0.46	0.57	0.58	0.47	0.71	0.18	0.10	0.78	0.65	0.63	0.55	0.60	0.58	0.80	0.67	0.45	0.59
R.yar khan	0.83	0.64	0.89	0.43	0.61	0.62	0.41	0.70	0.14	0.16	0.82	0.68	0.66	0.64	0.62	0.50	0.74	0.63	0.56	0.55
Shikhpura	0.77	0.58	0.87	0.41	0.51	0.52	0.35	0.62	0.11	0.16	0.78	0.62	0.54	0.50	0.55	0.47	0.76	0.55	0.52	0.50
Sialkot	0.78	0.67	0.89	0.46	0.60	0.60	0.44	0.72	0.17	0.15	0.81	0.71	0.68	0.64	0.64	0.60	0.76	0.66	0.53	0.59
Faisalabad	0.86	0.21	0.32	0.15	0.55	0.61	0.44	0.44	0.04	0.05	0.14	0.11	0.24	0.05	0.08	0.33	0.11	0.06	0.08	0.55
Hafizabad	0.02	0.26	0.02	0.32	0.55	0.54	0.38	0.32	0.28	0.16	0.06	0.10	0.09	0.13	0.15	0.40	0.02	0.40	0.53	0.53

District	Urdu SLOs Number																			
	1.1	1.2	1.3	1.4	2.2	2.4	2.5	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	3.1	3.11	3.12	5.1
	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Jhelum	0.85	0.75	0.57	0.74	0.55	0.58	0.36	0.38	0.62	0.62	0.64	0.51	0.45	0.75	0.31	0.68	0.46	0.54	0.58	0.52
Kasur	0.83	0.80	0.62	0.80	0.60	0.64	0.50	0.54	0.72	0.70	0.71	0.64	0.59	0.81	0.40	0.80	0.58	0.71	0.65	0.59
Khushab	0.83	0.73	0.56	0.75	0.58	0.61	0.35	0.32	0.60	0.66	0.61	0.47	0.45	0.77	0.31	0.66	0.44	0.55	0.53	0.49
Sahiwal	0.82	0.22	0.31	0.16	0.56	0.58	0.42	0.41	0.05	0.07	0.19	0.15	0.28	0.09	0.12	0.31	0.14	0.09	0.18	0.53

Table 10d

SLO wise Analysis of Scores in Islamiyat

District	Islamiyat SLOs Number															
	1	4	5	6	7	8	9	11	12	13	14	15	16	17	19	21
	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Hafizabad	0.97	0.46			0.19	0.95	0.89		0.91	0.93	0.89	0.84		0.90	0.70	0.80
Jhang	0.97	0.47			0.22	0.95	0.93		0.92	0.94	0.93	0.90		0.94	0.75	0.83
Lodhran	0.97	0.45			0.18	0.96	0.93		0.94	0.95	0.93	0.90		0.93	0.73	0.82
Pakpattan	0.97	0.38			0.12	0.94	0.87		0.91	0.92	0.87	0.86		0.91	0.66	0.79
Rajanpur	0.97	0.39			0.08	0.01	0.04		0.03	0.03	0.04	0.89		0.01	0.74	0.38
Rawalpindi	0.95	0.33			0.10	0.02	0.06		0.04	0.05	0.06	0.69		0.02	0.61	0.32
Faisalabad	0.71		0.97	0.78		0.95		0.26		0.80		0.91		0.57	0.20	0.86
Jhelum	0.61		0.94	0.76		0.95		0.19		0.70		0.87		0.37	0.15	0.84
Kasur	0.64		0.95	0.71		0.93		0.20		0.70		0.91		0.40	0.14	0.87
Mianwali	0.73		0.97	0.79		0.88		0.27		0.78		0.92		0.49	0.19	0.88
Narowal	0.73		0.95	0.77		0.95		0.21		0.76		0.87		0.39	0.14	0.87
Sahiwal	0.74		0.97	0.81		0.94		0.24		0.82		0.95		0.50	0.19	0.90
Bhakkar	0.97	0.45			0.24	0.93			0.90	0.92	0.91	0.90		0.92	0.74	0.83
Chiniot	0.97	0.50			0.20	0.92			0.90	0.90	0.91	0.88		0.91	0.72	0.78
Gujrat	0.96	0.43			0.10	0.92			0.89	0.85	0.87	0.81		0.85	0.65	0.75
Khanewal	0.96	0.43			0.15	0.92			0.91	0.89	0.89	0.87		0.90	0.67	0.78
Muzafargarh	0.97	0.58			0.16	0.95			0.93	0.91	0.93	0.91		0.93	0.83	0.80
Sialkot	0.95	0.45			0.15	0.91			0.88	0.84	0.87	0.84		0.87	0.67	0.75
D.g.khan	0.63		0.01		0.83			0.34		0.03	0.03	0.02		0.25	0.16	0.38
Khushab	0.65		0.96		0.81			0.31		0.79	0.90	0.94		0.48	0.17	0.88
Lahore	0.61		0.93		0.75			0.27		0.77	0.91	0.88		0.38	0.15	0.87
R.y.khan	0.59		0.95		0.79			0.24		0.78	0.92	0.93		0.31	0.15	0.91
T.t.singh	0.70		0.01		0.82			0.34		0.02	0.02	0.02		0.22	0.22	0.38

District	Islamiat SLOs Number															
	1	4	5	6	7	8	9	11	12	13	14	15	16	17	19	21
	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Vehari	0.66		0.01		0.81			0.34		0.02	0.02	0.02		0.24	0.20	0.38
Attock	0.96	0.49			0.12	0.93			0.90	0.82	0.86	0.77	0.86		0.70	0.71
Bahawalpur	0.96	0.48			0.17	0.95			0.92	0.50	0.88	0.84	0.91		0.68	0.78
Gujranwala	0.95	0.53			0.16	0.93			0.90	0.84	0.89	0.86	0.89		0.73	0.74
Layyah	0.97	0.42			0.15	0.94			0.90	0.89	0.90	0.88	0.92		0.73	0.79
Nankana	0.96	0.43			0.14	0.92			0.88	0.85	0.87	0.85	0.90		0.64	0.75
Sargodha	0.96	0.51			0.20	0.95			0.92	0.88	0.92	0.87	0.92		0.73	0.78
Bahawalnagar	0.20	0.00			0.09	0.01		0.55		0.83	0.01	0.01		0.24	0.57	0.25
Chakwal	0.96	0.12			0.17	0.95		0.92		0.02	0.04	0.84		0.02	0.02	0.52
M. Baha-ud-din	0.56	0.96			0.77	0.95		0.26		0.74	0.89	0.92		0.34	0.12	0.86
Multan	0.59	0.96			0.80	0.94		0.33		0.83	0.89	0.92		0.44	0.20	0.89
Okara	0.57	0.96			0.74	0.96		0.21		0.75	0.89	0.93		0.31	0.15	0.65
Sheikhpura	0.22	0.01			0.16	0.02		0.63		0.77	0.02	0.03		0.32	0.56	0.25

District	Islamiat SLOs Number															
	22	23	25	27	28	29	30	31	33	34	35	37	39	40	42	44
	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Hafizabad	0.41		0.84	0.53	0.81	0.64	0.86	0.87			0.84	0.95	0.25	0.62	0.82	
Jhang	0.32		0.87	0.52	0.85	0.72	0.91	0.92			0.88	0.96	0.26	0.70	0.88	
Lodhran	0.28		0.87	0.60	0.85	0.72	0.89	0.90			0.88	0.96	0.23	0.66	0.87	
Pakpattan	0.37		0.82	0.57	0.81	0.60	0.83	0.86			0.83	0.95	0.18	0.60	0.81	
Rajanpur	0.01		0.10	0.14	0.06	0.13	0.03	0.04			0.06	0.01	0.25	0.06	0.03	
Rawalpindi	0.01		0.14	0.09	0.09	0.18	0.06	0.06			0.07	0.04	0.16	0.06	0.07	
Faisalabad	0.56		0.54	0.87	0.59		0.87		0.80	0.22		0.83	0.83	0.74		0.78
Jehlum	0.48		0.63	0.84	0.56		0.76		0.78	0.20		0.75	0.80	0.72		0.76
Kasur	0.60		0.61	0.86	0.56		0.79		0.78	0.24		0.80	0.83	0.73		0.73
Mianwali	0.69		0.63	0.89	0.60		0.84		0.86	0.31		0.81	0.86	0.79		0.83
Narowal	0.62		0.67	0.88	0.57		0.79		0.80	0.30		0.81	0.86	0.77		0.77
Sahiwal	0.71		0.66	0.90	0.60		0.87		0.85	0.27		0.87	0.88	0.81		0.85
Bhakkar	0.49	0.43	0.88		0.84		0.77		0.93		0.90	0.97	0.21	0.70	0.86	
Chiniot	0.43	0.26	0.86		0.84		0.79		0.92		0.89	0.95	0.22	0.67	0.83	
Gujrat	0.61	0.34	0.85		0.80		0.70		0.88		0.85	0.94	0.18	0.61	0.76	
Khanewal	0.54	0.38	0.86		0.82		0.75		0.88		0.87	0.95	0.19	0.66	0.82	
Muzafargarh	0.65	0.26	0.90		0.89		0.80		0.94		0.92	0.96	0.26	0.77	0.87	
Sialkot	0.54	0.38	0.83		0.81		0.69		0.87		0.84	0.93	0.17	0.61	0.75	
D.g.khan	0.18		0.74		0.16	0.07	0.05	0.04		0.33		0.13	0.01	0.41		0.07

District	Islamiat SLOs Number															
	22	23	25	27	28	29	30	31	33	34	35	37	39	40	42	44
	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Khushab	0.66		0.63		0.63	0.88	0.84	0.85		0.25		0.84	0.87	0.79		0.83
Lahore	0.55		0.64		0.60	0.83	0.80	0.83		0.21		0.79	0.83	0.76		0.78
R.y.khan	0.65		0.71		0.61	0.86	0.81	0.85		0.26		0.81	0.89	0.80		0.81
T.t.singh	0.18		0.65		0.16	0.07	0.04	0.06		0.28		0.04	0.01	0.38		0.05
Vehari	0.16		0.63		0.14	0.06	0.04	0.06		0.27		0.04	0.01	0.02		0.05
Attock	0.39		0.83		0.75	0.51		0.81	0.88		0.83	0.95	0.16	0.65	0.80	
Bahawalpur	0.50		0.86		0.79	0.64		0.84	0.89		0.86	0.95	0.18	0.41	0.82	
Gujranwala	0.46		0.86		0.79	0.59		0.83	0.89		0.86	0.94	0.21	0.68	0.81	
Layyah	0.49		0.85		0.83	0.66		0.88	0.90		0.88	0.95	0.17	0.68	0.85	
Nankana	0.42		0.82		0.79	0.60		0.85	0.88		0.83	0.93	0.16	0.64	0.81	
Sargodha	0.46		0.88		0.83	0.69		0.88	0.91		0.89	0.95	0.22	0.70	0.85	
Bahawalnagar	0.11		0.03		0.29	0.05		0.04	0.03	0.50		0.04	0.02	0.16		0.02
Chakwal	0.30		0.02		0.13	0.64		0.84	0.02	0.05		0.02	0.50	0.13		0.82
M. Baha-ud-din	0.78		0.62		1.18	0.85		0.80	0.82	0.26		0.85	0.85	1.50		0.79
Multan	0.78		0.67		1.22	0.86		0.82	0.83	0.31		0.84	0.86	1.58		0.83
Okara	0.78		0.64		1.19	0.84		0.08	0.80	0.25		0.83	0.86	1.50		0.78
Sheikhpura	0.13		0.03		0.32	0.09		0.07	0.05	0.45		0.05	0.02	0.18		0.03

Table 10e

SLO wise Analysis of Scores in English

District	English SLOs Number																									
	8	11	24	25	27	28	30	31	32	33	35	36	37	38	39	40	41	42	43	44	45	47	48	49	50	
	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
Hafizabad	0.72	0.70	0.37	0.71	0.59	0.68	0.51	0.62	0.90	0.69	0.41	0.58	0.64	0.51	0.53	0.36	0.68	0.69	0.86	0.71	0.59	0.51	0.72	0.55	0.39	
Jhang	0.86	0.82	0.54	0.87	0.75	0.83	0.72	0.76	0.94	0.84	0.57	0.76	0.82	0.67	0.72	0.62	0.77	0.82	0.91	0.78	0.65	0.70	0.84	0.71	0.54	
Lodhran	0.35	0.37	0.52	0.85	0.76	0.80	0.71	0.75	0.95	0.84	0.57	0.74	0.80	0.64	0.72	0.57	0.80	0.80	0.90	0.81	0.69	0.70	0.84	0.68	0.57	
Pakpattan	0.24	0.29	0.31	0.72	0.54	0.64	0.49	0.61	0.91	0.69	0.34	0.59	0.66	0.49	0.52	0.30	0.65	0.66	0.86	0.71	0.52	0.51	0.75	0.56	0.35	
Rajanpur	0.02	0.39	0.26	0.06	0.79	0.03	0.07	0.11	0.00	0.84	0.14	0.06	0.57	0.37	0.04	0.68	0.46	0.08	0.89	0.08	0.15	0.09	0.06	0.41	0.37	
Rawalpindi	0.03	0.32	0.30	0.13	0.64	0.05	0.17	0.18	0.02	0.64	0.23	0.13	0.27	0.26	0.12	0.33	0.40	0.16	0.84	0.17	0.22	0.16	0.06	0.34	0.31	
Faisalabad	0.71	0.46	0.12	0.68	0.57	0.84	0.69	0.63	0.91	0.74	0.33	0.66	0.65	0.49	0.78	0.33	0.50	0.35	0.68	0.43	0.47	0.54	0.58	0.38	0.40	
Jhelum	0.74	0.50	0.16	0.69	0.60	0.82	0.71	0.58	0.87	0.71	0.28	0.65	0.66	0.52	0.76	0.30	0.51	0.00	0.67	0.43	0.52	0.55	0.60	0.39	0.47	
Kasur	0.70	0.48	0.12	0.67	0.58	0.83	0.64	0.58	0.89	0.73	0.35	0.66	0.63	0.50	0.73	0.36	0.51	0.00	0.63	0.39	0.47	0.54	0.56	0.38	0.41	
Mianwali	0.83	0.48	0.10	0.77	0.67	0.84	0.74	0.66	0.94	0.80	0.47	0.72	0.73	0.62	0.82	0.48	0.60	0.00	0.72	0.47	0.54	0.65	0.62	0.44	0.51	

District	English SLOs Number																								
	8	11	24	25	27	28	30	31	32	33	35	36	37	38	39	40	41	42	43	44	45	47	48	49	50
	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Narowal	0.81	0.55	0.12	0.78	0.72	0.87	0.75	0.67	0.91	0.80	0.40	0.74	0.75	0.65	0.83	0.45	0.61	0.00	0.73	0.49	0.60	0.67	0.65	0.48	0.57
Sahiwal	0.84	0.55	0.09	0.80	0.67	0.89	0.78	0.70	0.94	0.81	0.44	0.76	0.75	0.64	0.86	0.44	0.61	0.44	0.76	0.43	0.55	0.65	0.70	0.47	0.54
Bhakkar	0.88	0.80	0.61	0.88	0.72	0.82	0.88	0.86	0.71	0.83	0.67	0.73	0.79	0.76	0.84	0.16	0.78	0.65	0.79	0.64	0.83	0.70	0.36	0.75	0.50
Chiniot	0.86	0.81	0.60	0.86	0.75	0.79	0.85	0.84	0.68	0.82	0.48	0.68	0.76	0.73	0.81	0.18	0.74	0.67	0.79	0.64	0.84	0.67	0.27	0.75	0.59
Gujrat	0.81	0.70	0.44	0.71	0.55	0.75	0.76	0.76	0.43	0.66	0.39	0.58	0.58	0.60	0.68	0.17	0.62	0.45	0.66	0.53	0.75	0.58	0.22	0.57	0.40
Khanewal	0.84	0.73	0.46	0.80	0.67	0.79	0.83	0.81	0.60	0.74	0.54	0.66	0.70	0.66	0.75	0.26	0.66	0.57	0.69	0.58	0.77	0.63	0.27	0.70	0.46
Muzafargarh	0.94	0.89	0.71	0.92	0.86	0.73	0.93	0.91	0.86	0.90	0.77	0.85	0.89	0.86	0.91	0.28	0.86	0.82	0.85	0.77	0.90	0.78	0.54	0.88	0.63
Sialkot	0.80	0.70	0.45	0.72	0.58	0.74	0.73	0.76	0.45	0.64	0.39	0.59	0.62	0.60	0.69	0.21	0.62	0.49	0.63	0.51	0.74	0.58	0.22	0.60	0.43
D.g.khan	0.07	0.82	0.23	0.45	0.03	0.01	0.89	0.47	0.02	0.08	0.07	0.04			0.03	0.24	0.37	0.04	0.85	0.77	0.04	0.55	0.06	0.47	0.38
Khushab	0.75	0.72	0.26	0.75	0.56	0.91	0.79	0.64	0.29	0.47	0.72	0.60			0.78	0.14	0.66	0.69	0.70	0.61	0.70	0.49	0.23	0.64	0.52
Lahore	0.74	0.80	0.26	0.73	0.59	0.93	0.82	0.63	0.20	0.42	0.67	0.57			0.74	0.15	0.66	0.74	0.69	0.57	0.70	0.49	0.19	0.66	0.53
R.y.khan	0.76	0.78	0.22	0.76	0.67	0.93	0.83	0.70	0.26	0.42	0.74	0.64			0.79	0.25	0.61	0.77	0.73	0.67	0.75	0.57	0.24	0.69	0.59
T.t.singh	0.16	0.69	0.15	0.44	0.10	0.02	0.80	0.38	0.08	0.20	0.09	0.26			0.09	0.17	0.32	0.10	0.68	0.59	0.08	0.42	0.15	0.43	0.35
Vehari	0.12	0.73	0.16	0.44	0.09	0.01	0.83	0.38	0.06	0.18	0.07	0.26			0.05	0.20	0.27	0.07	0.72	0.62	0.08	0.49	0.15	0.43	0.37
Attock	0.79	0.79	0.80	0.62	0.68	0.77	0.75	0.77	0.91	0.32	0.62	0.64	0.72	0.64	0.31	0.48	0.65	0.60	0.61	0.60	0.59	0.62	0.25	0.46	0.60
Bahawalpur	0.78	0.75	0.83	0.49	0.62	0.69	0.77	0.75	0.92	0.34	0.51	0.67	0.74	0.59	0.31	0.55	0.59	0.63	0.51	0.55	0.57	0.59	0.21	0.37	0.57
Gujranwala	0.82	0.80	0.81	0.60	0.69	0.75	0.80	0.81	0.93	0.46	0.63	0.69	0.77	0.69	0.31	0.61	0.68	0.70	0.65	0.62	0.55	0.65	0.37	0.53	0.61
Layyah	0.74	0.70	0.74	0.50	0.58	0.68	0.71	0.75	0.83	0.40	0.56	0.65	0.74	0.58	0.28	0.56	0.60	0.61	0.55	0.54	0.59	0.62	0.33	0.42	0.53
Nankana	0.75	0.73	0.75	0.49	0.56	0.66	0.74	0.74	0.90	0.36	0.47	0.64	0.73	0.58	0.27	0.50	0.58	0.62	0.53	0.52	0.50	0.57	0.28	0.41	0.51
Sargodha	0.84	0.82	0.84	0.61	0.73	0.78	0.83	0.82	0.93	0.49	0.65	0.75	0.80	0.69	0.35	0.66	0.71	0.68	0.65	0.67	0.62	0.70	0.38	0.49	0.65
Bahawalnagar	0.91	0.38	0.53	0.07	0.12	0.02	0.10	0.40	0.20	0.07	0.54	0.29	0.36	0.46	0.79	0.62	0.48	0.86	0.80	0.04	0.12	0.10	0.58	0.09	0.23
Chakwal	0.49	0.75	0.83	0.31	0.12	0.03	0.13	0.08	0.92	0.21	0.14	0.49	0.54	0.11	0.31	0.18	0.59	0.08	0.21	0.55	0.57	0.47	0.14	0.27	0.08
M. B. Din	0.83	0.57	0.38	0.69	0.60	0.78	0.67	0.64	0.59	0.25	0.32	0.65	0.68	0.62	0.69	0.59	0.86	0.77	0.70	0.68	0.54	0.55	0.45	0.61	0.41
Multan	0.92	0.76	0.55	0.80	0.78	0.89	0.80	0.77	0.68	0.20	0.57	0.78	0.80	0.74	0.81	0.71	0.92	0.85	0.78	0.80	0.70	0.71	0.62	0.76	0.47
Okara	0.82	0.56	0.31	0.66	0.56	0.76	0.65	0.58	0.43	0.23	0.33	0.62	0.69	0.57	0.67	0.58	0.84	0.76	0.70	0.66	0.49	0.52	0.36	0.60	0.41
Sheikhpura	0.89	0.35	0.42	0.10	0.58	0.03	0.14	0.39	0.28	0.10	0.40	0.28	0.37	0.41	0.72	0.61	0.46	0.77	0.74	0.07	0.14	0.13	0.55	0.11	0.20

Table 10f

SLO wise Analysis of Scores in Science

District	Science SLOs Number																		
	1	2	3	4	5	6	8	9	11	12	13	14	16	17	18	19	20	21	22
	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Hafizabad		0.77	0.95					0.86	0.54		0.55	0.65					0.55		0.65
Jhang		0.93	0.98					0.91	0.65		0.71	0.86					0.75		0.78
Lodhran		0.90	0.96					0.68	0.65		0.85	0.68					0.73		0.40
Pakpattan		0.74	0.00					0.52	0.54		2.80	0.52					0.56		0.27
Rajanpur		0.92	0.97					0.07	0.13		0.13	0.07					0.07		0.36
Rawalpindi		0.69	0.91					0.13	0.17		0.20	0.13					0.11		0.27
Faisalabad		0.80	0.96			0.67	0.60		0.07		0.59	0.85			0.38		0.48	0.11	
Jhelum		0.70	0.94			0.66	0.64		0.09		0.50	0.82			0.39		0.51	0.35	
Kasur		0.77	0.95			0.63	0.53		0.07		0.51	0.83			0.32		0.50	0.37	
Mianwali		0.87	0.96			0.72	0.56		0.04		0.70	0.89			0.49		0.59	0.49	
Narowal		0.73	0.94			0.72	0.66		0.06		0.54	0.86			0.40		0.54	0.41	
Sahiwal		0.89	0.96			0.78	0.67		0.04		0.66	0.89			0.51		0.60	0.14	
Bhakkar	0.93				0.77	0.79	0.03			0.88	0.77	0.64	0.53	0.08				0.84	0.41
Chiniot	0.91				0.70	0.72	0.83			0.86	0.73	0.71	0.60	0.55				0.85	0.43
Gujrat	0.87				0.58	0.71	0.75			0.79	0.62	0.62	0.38	0.34				0.79	0.36
Khanewal	0.88				0.70	0.73	0.77			0.82	0.65	0.68	0.48	0.42				0.79	0.38
Muzafargarh	0.95				0.80	0.89	0.89			0.93	0.84	0.80	0.81	0.74				0.90	0.45
Sialkot	0.89				0.55	0.69	0.76			0.80	0.56	0.62	0.41	0.32				0.79	0.37
D.g.khan		0.96	0.46	0.02		0.63		0.03			0.36		0.19			0.09			
Khushab		0.95	0.23	0.92		0.45		0.89			0.59		0.54			0.76			
Lahore		0.93	0.30	0.88		0.58		0.86			0.56		0.60			0.79			
R.y.khan		0.95	0.28	0.89		0.60		0.87			0.59		0.56			0.79			
T.t.singh		0.00	0.32	0.02		0.45		0.05			0.38		0.29			0.17			
Vehari		0.97	0.36	0.02		0.52		0.04			0.37		0.28			0.14			
Attock		0.61	0.91					0.28	0.20		0.64	0.82					0.54	0.52	0.78
Bahawalpur		0.77	0.94					0.30	0.26		0.64	0.86					0.59	0.60	0.79
Gujranwala		0.69	0.94					0.36	0.13		0.58	0.86					0.60	0.60	0.82
Layyah		0.80	0.95					0.34	0.25		0.60	0.89					0.64	0.67	0.82
Nankana		0.68	0.95					0.32	0.25		0.58	0.84					0.53	0.55	0.78
Sargodha		0.83	0.96					0.34	0.27		0.72	0.89					0.65	0.70	0.84
Bahawalnagar	0.95							0.04	0.04			0.06	0.00				0.73	0.06	
Chakwal	0.03							0.00	0.00			0.22	0.00				0.37	0.05	

District	Science SLOs Number																		
	1	2	3	4	5	6	8	9	11	12	13	14	16	17	18	19	20	21	22
	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
M. Baha-ud-din	0.82							0.77	0.67			0.74	0.30				0.57	0.62	
Multan	0.92							0.85	0.71			0.83	0.46				0.74	0.80	
Okara	0.89							0.76	0.67			0.71	0.31				0.59	0.63	
Sheikhpura	0.89							0.05	0.07			0.09	0.00				0.64	0.11	

District	Science SLOs Number																		
	23	25	26	27	28	29	30	31	32	33	34	35	36	37	42	43	44	45	46
	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Hafizabad		0.63	0.40	0.33	0.26	0.87		0.50			0.59	0.32	0.77		0.50	0.70	0.64		
Jhang		0.77	0.59	0.40	0.41	0.91		0.56			0.72	0.37	0.84		0.70	0.86	0.70		
Lodhran		0.90	0.58	0.33	1.67	0.47		0.41			0.70	0.83	0.83		0.37	0.82	0.73		
Pakpattan		0.87	0.39	0.34	1.47	0.38		0.39			0.62	0.83	0.81		0.33	0.70	0.65		
Rajanpur		0.03	0.09	0.32	0.15	0.15		0.06			0.09	0.02	0.07		0.03	0.05	0.12		
Rawalpindi		0.07	0.12	0.29	0.25	0.20		0.09			0.13	0.04	0.11		0.07	0.12	0.17		
Faisalabad		0.28	0.77	0.42	0.31		0.31				0.57	0.00	0.49	0.63	0.88		0.63		
Jhelum		0.28	0.74	0.44	0.28		0.31				0.58	0.52	0.43	0.59	0.85		0.61		
Kasur		0.19	0.76	0.43	0.30		0.29				0.53	0.51	0.42	0.60	0.85		0.58		
Mianwali		0.35	0.81	0.45	0.38		0.32				0.61	0.66	0.50	0.71	0.91		0.69		
Narowal		0.24	0.75	0.54	0.30		0.37				0.62	0.61	0.45	0.67	0.88		0.70		
Sahiwal		0.33	0.82	0.50	0.36		0.35				0.65	0.61	0.52	0.71	0.92		0.71		
Bhakkar			0.58	0.25	0.44		0.84	0.03			0.46	0.06		0.08	0.90	0.85	0.49	0.07	
Chiniot			0.51	0.29	0.39		0.83	0.90			0.41	0.74		0.39	0.88	0.85	0.51	0.00	
Gujrat			0.41	0.26	0.31		0.68	0.86			0.33	0.57		0.33	0.78	0.71	0.37	0.57	
Khanewal			0.49	0.28	0.36		0.75	0.85			0.40	0.65		0.37	0.85	0.77	0.46	0.64	
Muzafargarh			0.62	0.23	0.66		0.92	0.92			0.60	0.86		0.44	0.93	0.92	0.72	0.82	
Sialkot			0.37	0.28	0.31		0.67	0.85			0.33	0.56		0.32	0.78	0.70	0.37	0.60	
D.g.khan		0.10	0.06	0.34	0.41	0.01				0.83	0.71	0.12		0.45	0.26		0.54	0.10	0.06
Khushab		0.27	0.50	0.39	0.36	0.92				0.71	0.58	0.20		0.65	0.72		0.28	0.24	0.59
Lahore		0.26	0.54	0.30	0.30	0.91				0.77	0.63	0.30		0.64	0.64		0.37	0.19	0.58
R.y.khan		0.32	0.56	0.33	0.32	0.91				0.80	0.65	0.35		0.66	0.67		0.37	0.23	0.63
T.t.singh		0.07	0.11	0.38	0.31	0.02				0.69	0.60	0.22		0.41	0.24		0.27	0.16	0.10
Vehari		0.07	0.09	0.32	0.35	0.01				0.76	0.64	0.21		0.40	0.23		0.33	0.18	0.09
Attock		0.35	0.14	0.46	0.37	0.83	0.34		0.85		0.28	0.45	0.74	0.45	0.39	0.69			0.56
Bahawalpur		0.32	0.16	0.45	0.33	0.85	0.40		0.91		0.41	0.38	0.79	0.40	0.44	0.74			0.60
Gujranwala		0.37	0.10	0.52	0.42	0.86	0.32		0.85		0.37	0.37	0.78	0.52	0.48	0.75			0.66
Layyah		0.36	0.14	0.49	0.34	0.88	0.46		0.91		0.43	0.34	0.82	0.39	0.49	0.78			0.67

District	Science SLOs Number																		
	23	25	26	27	28	29	30	31	32	33	34	35	36	37	42	43	44	45	46
	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Nankana		0.31	0.21	0.41	0.30	0.85	0.37		0.89		0.37	0.34	0.76	0.38	0.43	0.72			0.60
Sargodha		0.42	0.13	0.54	0.41	0.89	0.41		0.91		0.44	0.34	0.81	0.45	0.56	0.79			0.70
Bahawalnagar	0.58	0.46	0.74		0.19			0.05	0.03	0.01	0.12	0.11	0.09	0.04	0.71		0.09	0.11	0.02
Chakwal	0.16	0.00	0.45		0.19			0.00	0.91	0.09	0.41	0.38	0.00	0.12	0.07		0.00	0.64	0.11
M. Baha-ud-din	0.42	0.17	0.54		0.31			0.68	0.80	0.84	0.50	0.52	0.41	0.71	0.52		0.30	0.52	0.59
Multan	0.62	0.13	0.75		0.42			0.82	0.89	0.92	0.72	0.69	0.65	0.79	0.67		0.34	0.67	0.70
Okara	0.40	0.14	0.58		0.29			0.66	0.82	0.89	0.52	0.53	0.45	0.71	0.53		0.28	0.56	0.57
Sheikhpura	0.47	0.51	0.64		0.18			0.11	0.05	0.03	0.17	0.14	0.18	0.08	0.60		0.11	0.14	0.03

District	Science SLOs Number																		
	47	48	49	50	51	52	53	54	55	57	58	59	60	61	62	63	64	65	66
	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Hafizabad	0.34	0.55		0.78		0.37		0.33	0.42	0.61	0.63	0.17		0.36	0.53			0.61	
Jhang	0.34	0.71		0.87		0.32		0.56	0.52	0.78	0.79	0.09		0.50	0.67			0.71	
Lodhran	0.31	0.69		0.87		0.47		0.44	0.49	0.76	0.77	0.12		0.49	0.63			0.69	
Pakpattan	0.32	0.55		0.83		0.39		0.27	0.46	0.67	0.63	0.16		0.37	0.54			0.58	
Rajanpur	0.23	0.12		0.04		0.42		0.17	0.00	0.12	0.12	0.07		0.56	0.03			0.65	
Rawalpindi	0.36	0.18		0.06		0.27		0.20	0.00	0.19	0.22	0.14		0.34	0.08			0.55	
Faisalabad	0.26	0.62	1.44		0.61		0.77	0.57	0.58	0.00	0.63	0.39		0.53		0.00			0.32
Jehlum	0.33	0.55	1.37		0.54		0.73	0.58	0.57	0.61	0.57	0.37		0.49		0.86			0.29
Kasur	0.30	0.62	1.46		0.53		0.75	0.58	0.58	0.59	0.56	0.37		0.49		0.88			0.29
Mianwali	0.36	0.67	1.63		0.67		0.85	0.55	0.71	0.58	0.70	0.41		0.60		0.92			0.43
Narowal	0.33	0.57	1.45		0.59		0.73	0.66	0.62	0.61	0.67	0.42		0.54		0.85			0.29
Sahiwal	0.33	0.68	1.59		0.68		0.81	0.63	0.70	0.00	0.70	0.41		0.62		0.00			0.39
Bhakkar	0.58	0.73		0.08	0.71	0.84	0.69			0.65		0.03	0.56	0.46			0.02		0.58
Chiniot	0.60	0.64		0.73	0.74	0.82	0.74			0.55		0.69	0.49	0.52			0.86		0.51
Gujrat	0.48	0.51		0.71	0.57	0.76	0.57			0.39		0.57	0.41	0.41			0.82		0.50
Khanewal	0.53	0.62		0.72	0.64	0.82	0.67			0.55		0.64	0.45	0.44			0.84		0.51
Muzafargarh	0.74	0.86		0.86	0.84	0.89	0.79			0.79		0.85	0.58	0.55			0.92		0.69
Sialkot	0.48	0.52		0.74	0.53	0.76	0.61			0.37		0.56	0.42	0.43			0.79		0.50
D.g.khan	0.30	0.75	0.04		0.05		0.00	0.74		0.08		0.08	0.10	0.02	0.16	0.75			
Khushab	0.42	0.67	0.73		0.59		0.64	0.50		0.68		0.78	0.55	0.73	0.42	0.61			
Lahore	0.39	0.66	0.69		0.62		0.57	0.59		0.65		0.79	0.56	0.74	0.47	0.64			
R.y.khan	0.38	0.69	0.76		0.68		0.67	0.64		0.70		0.80	0.59	0.74	0.52	0.68			
T.t.singh	0.26	0.69	0.05		0.09		0.65	0.51		0.15		0.11	0.14	0.04	0.23	0.65			
Vehari	0.25	0.73	0.04		0.07		0.00	0.57		0.74		0.09	0.13	0.02	0.25	0.68			

District	Science SLOs Number																		
	47	48	49	50	51	52	53	54	55	57	58	59	60	61	62	63	64	65	66
	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Attock	0.30	0.48	0.78	0.78			0.56		0.52	0.54			0.54	0.43	0.60				0.42
Bahawalpur	0.29	0.59	0.85	0.80			0.59		0.67	0.58			0.58	0.48	0.67				0.55
Gujranwala	0.34	0.66	0.82	0.80			0.59		0.63	0.56			0.62	0.47	0.68				0.55
Layyah	0.37	0.55	0.90	0.87			0.62		0.65	0.59			0.63	0.50	0.73				0.58
Nankana	0.27	0.61	0.84	0.79			0.59		0.56	0.52			0.52	0.38	0.61				0.45
Sargodha	0.34	0.68	0.87	0.85			0.64		0.66	0.59			0.63	0.54	0.73				0.56
Bahawalnagar	0.10	0.34		0.84		0.04	0.17	0.29	0.79	0.32		0.04		0.62	0.10				0.32
Chakwal	0.00	0.00		0.00		0.06	0.25	0.75	0.67	0.16		0.14		0.17	0.09				0.09
M. Baha-ud-din	0.50	0.47		0.79		0.71	0.15	0.49	0.57	0.57		0.65		0.51	0.40				0.20
Multan	0.60	0.47		0.83		0.83	0.31	0.61	0.75	0.68		0.75		0.66	0.49				0.28
Okara	0.46	0.46		0.76		0.77	0.12	0.51	0.58	0.59		0.62		0.46	0.37				0.26
Sheikhpura	0.15	0.29		0.74		0.07	0.26	0.22	0.66	0.30		0.08		0.20	0.10				0.22