PUNJAB EDUCATION, CURRICULUM, TRAINING AND ASSESSMENT AUTHORITY

21- E-II, Gulberg-III, Lahore

No: PECTAA/C&C Unit/2026/ 1265

Dated: 20.11.2026

Director (C & C)

NOTIFICATION

In supersession of this office earlier Notification No. PECTAA/C&C Unit/2026/ 1254 dated 14.11.2026 and in pursuance of Section 9(1)(b) of the Punjab Education, Curriculum, Training and Assessment Authority Act-2025, the Revised Smart Syllabus (Accelerated Learning Programme–ALP/Deleted Topics and Exercise Questions), Pairing Schemes and Model Papers for Matric-Tech (Grade-10) **(Annex-A)** for the Academic Session 2026-27 and BISEs Annual Examination-2027 are hereby notified for implementation across the Punjab.

No Smart Syllabus (Accelerated Learning Programme – ALP / Deleted Topics and Exercise Questions) has been notified for the subjects of Tarjama-tul-Quran and Ethics for Grade-10, as no topics or exercise questions have been deleted in these subjects.

(SAADIA SARDAR)
Director (Curriculum & Compliance)

CC:

1. PSO to the Minister, Government of the Punjab, School Education Department
2. PS to the Vice Chairperson, PECTAA / Parliamentary Secretary for School Education
3. PS to the Chairperson, Chief Minister Task Force for Examination & Assessment
4. PS to the Secretary, Government of the Punjab, School Education Department
5. PS to the Secretary, Government of the Punjab, Higher Education Department
6. PS to the Special Secretary, Government of the Punjab, SED
7. Staff Officer to the Chief Executive Officer, PECTAA
8. PS to all Managing Directors, PECTAA
9. PA to the Secretary, Punjab Boards Committee of Chairpersons (PBCC)
10. PS to the Chairperson, BISE / PBTE (Lahore, Gujranwala, Rawalpindi, Sargodha, Faisalabad, Sahiwal, Multan, Dera Ghazi Khan and Bahawalpur)
11. PA to all Directors, PECTAA
12. PS to the Programme Director, PMIU
13. PS to Managing Director, Punjab Education Foundation
14. PS to the Chief Executive Officer, Punjab Education Initiatives Management Authority
15. PS to the Managing Director, Punjab Daanish Schools & Centres of Excellence Authority
16. PS to the DPI (Colleges / Secondary Education), Punjab
17. PS to the DPI (Colleges / Secondary Education), South Punjab, Multan
18. PS to all Chief Executive Officers (Education), District Education Authorities, Punjab
19. Director (IT), PECTAA for uploading the Notification and the Smart Syllabus (Accelerated Learning Programme-ALP / Deleted Topics and Exercise Questions), Pairing Schemes and Model Papers for Matric-Tech (Grade-10) on the website of PECTAA.
20. Office File

Annex-A

Revised Smart Syllabus / Accelerated Learning Programme (ALP) English Grade-10 for Academic Session 2026-27 & BISE Exam-2027

Total Units: 10 Excluded Units: 03 Remaining Units: 07

Details of Excluded Units:

Sr. No.	Unit No. & Name	Pages
1.	**Unit 4:** The Earth: Act Now for Tomorrow	38 to 47
2.	**Unit 7:** Time (Poem)	72 to 79
3.	**Unit 10:** The Three Questions	103 to 113

Pairing Scheme

ALP English-10: ESSENTIAL INSTRUCTIONS FOR PAPER SETTERS

The paper of English for Grade-10 will consist of 75 marks; Objective Type = 19 & Subjective Type = 56.

Timing of the paper will be 2:30 hours; Objective Type = 20 minutes & Subjective Type = 2:10 hours. The paper will be made as per the following details:

Objective Type	**Q-1:** 19 Multiple Choice Questions. MCQs will be developed from the Units No. 1, 2, 3, 5, 6, 8, 9 of English-10 and English Grammar and Composition 9-10. The detail is as under: a. Choose the correct forms of the verbs and fill up the bubble sheet. — 05 marks (English Grammar and Composition 9-10) = 5 marks b. Choose the words with the correct spellings and fill up the bubble sheet. — 04 marks The bifurcation is as under: Units 1, 2, 3, 5 + Review-I (excluded portion of Unit 4) = 2 marks Units 6, 8, 9 + Review-II (excluded portion of Units 7 & 10) = 2 marks	1×19 = 19

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	c. Choose the correct meanings of the underlined words and fill up the bubble sheet. The bifurcation is as under: Units 1, 2, 3, 5 + Review-I (excluded portion of Unit 4) = 2 marks Units 6, 8, 9 + Review-II (excluded portion of Units 7 & 10) = 3 marks	05 marks	
	d. Choose the correct option according to the grammar and fill up the bubble sheet. (Units No. 1, 2, 3, 5, 6, 8, 9 of English-10 + English Grammar and Composition 9-10) = 5 marks	05 marks	
Subjective Type	**Q-2:** Write short answers to any five out of the eight questions. The bifurcation for the choice of questions is as under: Units 1, 2, 3, 5 + Review-I (excluded portion of Unit 4) = 4 questions Units 6, 8, 9 + Review-II (excluded portion of Units 7 & 10) = 4 questions		2×5 = 10
	Q-3: Translate any one out of the two paragraphs into Urdu/ Re-write into simple English. The bifurcation is as under: Units 1, 2, 3, 5 + Review-I (excluded portion of Unit 4) = 1 paragraph Units 6, 8, 9 + Review-II (excluded portion of Units 7 & 10) = 1 paragraph		8×1 = 8
	Q-4: Write down the summary of the poem. **OR** Explain the stanza with reference to the context. (Summary from one poem and the stanza from the other one. Unit 7 Time (Poem) will not be included.)		05
	Q-5: Write an essay of 150-200 words on any one out of the three topics. **OR** Write a paragraph of 100-150 words on any one out of the three topics. (from English Grammar and Composition 9-10)		15×1 = 15
	Q-6: Change any five out of eight sentences into indirect forms. (from English Grammar and Composition 9-10)		1×5 = 5
	Q-7: Use any five out of the eight pairs of words in your own sentences. (from English Grammar and Composition 9-10)		1×5 = 5
	Q-8: Translate the paragraph from Urdu into English. (from English Grammar and Composition 9-10) **OR** Exclusively for the candidates whose medium of examination is English to write the paragraph of ten (10) sentences on the given topic. (from English Grammar and Composition 9-10)		08

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Model Paper English-10

English (Compulsory) **Time Allowed: 20 Minutes**

Paper-I: Objective Type **Maximum Marks: 19**

Q.1

(a) Choose the correct forms of verbs and fill up the bubble sheet. (5)

	Questions	(A)	(B)	(C)	(D)
1.	It ____ at present.	rain	rained	is raining	has rained
2.	She _____ the piano since 2 o'clock.	plays	is playing	has been playing	played
3.	How long ago did you _____ here?	come	came	have come	had come
4.	He _____ here since 1970.	is coming	was coming	has been coming	have been coming
5.	I hope it _____ raining by the evening.	stops	stopped	has stopped	will have stopped

(b) Choose the words with the correct spellings and fill up the bubble sheet. (4)

6.	patriarcal	patriarchal	patrirchal	patriarkal
7.	facsinating	fassinating	fascinating	fascineting
8.	adicted	addicted	addictted	addected
9.	garbege	garbage	garbige	garbagge

(c) Choose the correct meanings of the underlined words and fill up the bubble sheet. (5)

	Questions	(A)	(B)	(C)	(D)
10.	**advent** means:	departure or leaving	arrival or beginning	celebration or festival	adventure or journey
11.	Emoji use has **added** a visual element to language	removed	included	ignored	replaced
12.	Let's try to **explore** the causes of pollution.	ignore	investigate	destroy	create
13.	The synonym of **"suffer"**:	enjoy	endure	celebrate	ignore
14.	The antonym of **"prove"**:	refute	verify	conceal	apply

(d) Choose the correct option according to grammar and fill up the bubble sheet. (5)

	Questions	(A)	(B)	(C)	(D)
15.	The girl **with the red scarf** is my cousin.	Adj. Phrase	Prepositional Phrase	Noun Phrase	Adv. Phrase
16.	English is **often** used as a global lingua franca. The underlined word is:	adverb	noun	gerund	adjective

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17.	This **damages** their education. The underlined word is:	verb	modal verb	adjective	adverb
18.	It must go hand in hand with **environmental** protection.	noun	verb	adverb	adjective
19.	He speaks the truth. Here "**truth**" is a/an _____.	adjective	verb	noun	pronoun

English (Compulsory) **Time Allowed: 2:10 Hours**

Paper-I: Essay Type **Maximum Marks: 56**

SECTION – I

Q.2 Answer any FIVE of the following questions: (2 × 5 = 10)

(i) What was the social condition of women, orphans, and slaves in pre-Islamic Arabia?

(ii) What is code-switching, and how does it appear in online communication?

(iii) How does the poet show love for Pakistan? With reference to the poem, "My Beloved Pakistan".

(iv) What motivates the Swallow to delay his journey to Egypt and help the Happy Prince?

(v) What is drug abuse, and how does it affect individuals and society?

(vi) How does greenery, especially trees and plants, help reduce pollution and improve the quality of life in cities?

(vii) What are some of the harmful effects of drug abuse?

(viii) Why is the speaker sorry he cannot travel both the roads? With reference to the poem, "The Road Not Taken".

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SECTION - II

Q.3 Translate any ONE of the following paragraphs into Urdu (OR) Rewrite any ONE of the following paragraphs in simple English: (1 × 8 = 8)

(i) Furthermore, emoji use has added a visual element to language, sometimes replacing words entirely. A heart emoji or a fire symbol can now carry complex emotional meanings, acting like modern-day hieroglyphs.

(ii) One of the most worrying things is that many drug users are young people. Teenagers and university students are especially at risk. Some students start using drugs at parties or with friends, thinking it is fun. But later, they become addicted and cannot stop.

Q.4 Write the summary of the poem "The Road Not Taken" by Robert Frost. (5)
(OR) Paraphrase the following lines into simple English with reference to the context:

Your flag of green and star so white,
Shines like a beacon in the night.
We hold it high, both proud and Strong,
In every heart, your name belongs.

Q.5 Write an essay of 150-200 words on any ONE of the following topics: (15)

i. A True Muslim ii. Health iii. Tolerance

OR

Write a paragraph of 100-150 words on any ONE of the following topics:

i. The Pakistani Women ii. My Neighbour iii. A Pleasant Dream

Q.6 Change any FIVE of the following sentences into indirect forms. (5)

(i) She said, "May you prosper!"

(ii) She said, "What a beautiful piece of art!"

(iii) He said, "Alas! I am ruined."

(iv) Afshan said, "Let us go for a picnic on Friday."

(v) The judge said, "Call the next witness."

(vi) The teacher said, "Do not make a noise."

(vii) Raza said, "Where are you going?"

(viii) They said, "We have done our duty."

Q.7 Use any FIVE of the following pairs of words in your own sentences: (5)

i. affect: effect ii. bare: bear iii. cool: cold iv. diary: dairy

v. elder: older vi. flour: floor vii. meet: meat viii. sail: sale

Q.8 Translate the following paragraph into English. (8)

آدمی اپنی قسمت خود بناتا ہے اس کو چاہیے کہ محنت کرے اور لگن سے کام کرے تا کہ اپنی زندگی میں کامیاب ہو سکے محنت اس دنیا کی سب سے بڑی حقیقت ہے جس کو جھٹلایا نہیں جاسکتا اگر ہم ماضی میں نظر دوڑائیں تو معلوم ہو گا کہ جتنے بھی عظیم آدمی گزرے ہیں سب نے محنت اور ہمت سے کام لیا اور اپنی قسمت سنواری ابراہیم لنکن امریکہ کا صدر گزرا ہے اگر ہم اس کی زندگی کا مطالعہ کریں تو معلوم ہو گا کہ وہ لکڑہارے کا بیٹا تھا لیکن اس کو پڑھنے کا شوق تھا۔

Alternative Question for the Foreign / English Medium Candidates

Q.8 Write a paragraph of TEN sentences about "Computers".

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Revised [Smart Syllabus] سمارٹ سلیبس

مضمون: اردو برائے جماعت دہم (X)

اردو (لازمی) برائے جماعت دہم (X) کی درسی کتاب میں سے طلبہ کی سہولت کے پیش نظر چھے (6) اسباق حذف کیے جا رہے ہیں تا کہ طلبہ بیس (20) کے بجائے چودہ (14) اسباق پر توجہ مرکوز کرتے ہوئے بھرپور تیاری کر سکیں۔

حذف شدہ اسباق کی تفصیل:۔

نمبر شمار	حصّہ	عنوانات	صفحہ نمبر
1	حصہ نثر	محسن محلّہ از اشفاق احمد	28 تا 33
2	حصہ نثر	بابل کے کھنڈر از جمیل الدّین عالی	74 تا 81
3	حصہ نثر	اولڈ اِیج ہوم از میرزا ادیب	83 تا 99
4	حصہ نثر	کچھ ذریعۂ تعلیم کے باب میں از ڈاکٹر ابواللیث صدیقی	101 تا 106
5	حصہ نظم	وغیرہ از انورؔ مسعود	126 تا 129
6	حصہ غزل	یوں کہنے کو پیرایۂ اظہار بہت ہے از زہراؔ نگاہ	146 تا 149

امتحانی بورڈ کے پرچہ مرتبین کے لیے لازم ہے کہ سوالیہ پرچہ ترتیب دیتے وقت درج بالا اسباق میں سے معروضی، انشائی اور دیگر نوعیت کے سوالات (کُلی یا جزوی صورت میں) شامل نہ کریں۔

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Pairing Scheme of Urdu-10

[Smart Syllabus]

امتحانی پرچہ اُردو (لازمی) برائے جماعت دہم (X) کے لیے ہدایات [سمارٹ سلیبس]

اُردو لازمی برائے جماعت دہم (X) کا پرچہ 75 نمبروں پر مشتمل ہوگا۔ معروضی طرز 15 نمبروں پر مشتمل ہوگا اور اس کا وقت 20 منٹ ہوگا۔ انشائی طرز 60 نمبروں پر مشتمل ہوگا اور اس کا وقت 2 گھنٹے 10 منٹ (2:10) ہوگا۔

نوٹ: بورڈ کے امتحان میں؛ مصنفین اور شعرا کے تعارف میں سے کسی قسم کا سوال نہیں پوچھا جائے گا۔

پرچہ مرتبین درج ذیل ہدایات کو پیش نظر رکھیں:۔

معروضی طرز

سوال	نمبر	ہدایات
سوال:1 کثیر الانتخابی سوالات (MCQs)	کل نمبر:15	**نصابی کتاب:** اس حصے میں سے دس (10) کثیر الانتخابی سوالات (MCQs) بنائے جائیں۔ ☆ حصہ نثر کے مجوزہ چھے (6) اسباق میں سے کوئی سے پانچ (5) اسباق میں سے ایک ایک اور کسی ایک سبق میں سے دو (2) کثیر الانتخابی سوالات (MCQs) بنائے جائیں۔ ☆ مجوزہ حصہ نظم میں سے دو (2) کثیر الانتخابی سوالات (MCQs) بنائے جائیں۔ ☆ مجوزہ حصہ غزل میں سے ایک (1) کثیر الانتخابی سوال (MCQ) بنایا جائے۔ **حصہ قواعد:** اس حصے میں سے پانچ (5) کثیر الانتخابی سوالات (MCQs) بنائے جائیں۔ ☆ **ذُو معنی الفاظ، مماثل و متشابہ الفاظ** (اُردو قواعد و انشا: ص 31 تا 33) میں سے ایک (1) کثیر الانتخابی سوال (MCQ) بنایا جائے۔ ☆ **تلفظ/ اِعراب** (اُردو قواعد و انشا: ص 47 تا 49) میں سے ایک (1) کثیر الانتخابی سوال (MCQ) بنایا جائے۔ ☆ **تشبیہ/ استعارہ** (اُردو قواعد و انشا: ص 62 تا 64) میں سے ایک (1) کثیر الانتخابی سوال (MCQ) بنایا جائے۔ ☆ **صرف و نحو (اسم، فعل، حرف اور ان کی اقسام)** (اُردو قواعد و انشا: ص 01 تا 11 اور ص 20 تا 28) میں سے دو (2) کثیر الانتخابی سوالات (MCQs) بنائے جائیں۔

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انشائی طرز

سوال	نمبر	ہدایات
سوال:2 اشعار کی تشریح (نظم وغزل)	کل نمبر:10 (5x2=10)	☆ مجوزہ پانچ (5) نظموں میں سے کوئی سی چار (4) نظموں میں سے ایک ایک شعر دیا جائے، جن میں سے طلبہ کوئی سے تین (3) اشعار کی تشریح تحریر کریں گے۔ ☆ مجوزہ تین (3) غزلوں میں سے ہر غزل کا ایک ایک شعر دیا جائے، جن میں سے کوئی سے دو (2) اشعار کی تشریح درکار ہوگی۔
سوال:3 پیراگراف کی تشریح	کل نمبر:10	مجوزہ چھے (6) نثری اسباق میں سے، پہلے تین (3) اسباق (اخلاق نبویؐ، سرسیّد کا بچپن، کفّارہ) اور آخری تین (3) اسباق (سویرے جو کل آنکھ میری کھلی، دوستی کا پھل، میرا گاؤں) میں سے ایک ایک نثر پارہ تشریح کے لیے دیا جائے۔ ہر نثر پارے کے کل تین الفاظ/تراکیب کو خط کشید کیا جائے۔ دو نثر پاروں میں سے کسی ایک کی تشریح درکار ہے۔ نمبروں کی تقسیم: [مصنف کا نام:01 نمبر، سبق کا عنوان:01 نمبر، خط کشیدہ الفاظ/تراکیب کے معانی:3 نمبر، تشریح:5 نمبر، کل نمبر 10]
سوال:4 مختصر سوالات کے جوابات	کل نمبر:10 (5x2=10)	اس حصّے میں کل آٹھ (8) مختصر سوالات بنائے جائیں جن میں سے پانچ (5) سوالات کے جوابات درکار ہیں۔ ☆ حصّہ نثر میں سے چار (4) سوالات بنائے جائیں۔ مجوزہ چھے (6) نثری اسباق میں سے، پہلے تین (3) اسباق (اخلاق نبویؐ، سرسیّد کا بچپن، کفّارہ) اور آخری تین (3) اسباق (سویرے جو کل آنکھ میری کھلی، دوستی کا پھل، میرا گاؤں) میں سے دو دو سوالات بنائے جائیں۔ ☆ حصّہ نظم میں سے دو (2) سوالات بنائے جائیں۔ مجوزہ پانچ (5) نظموں میں سے، پہلی تین نظموں (حمد، نعت، آدمی نامہ) اور آخری دو (2) نظموں (نمودِ صُبح، خطاب بہ جوانانِ اسلام) میں سے ایک ایک سوال بنایا جائے۔ ☆ حصّہ غزل میں سے دو (2) سوالات بنائے جائیں۔ مجوزہ تین (3) غزلوں میں سے کوئی سی دو (2) غزلوں میں سے ایک ایک سوال بنایا جائے۔
سوال:5 نثری سبق کا خلاصہ	کل نمبر:5	مجوزہ چھے (6) نثری اسباق میں سے، پہلے تین (3) اسباق (اخلاق نبویؐ، سرسیّد کا بچپن، کفّارہ) اور آخری تین (3) اسباق (سویرے جو کل آنکھ میری کھلی، دوستی کا پھل، میرا گاؤں) میں سے ایک ایک سبق منتخب کیا جائے۔ دیے گئے دو اسباق میں سے کسی ایک (1) سبق کا خلاصہ درکار ہے۔

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سوال:6 **مضمون نویسی**	کل نمبر:15	اُردو قواعد و انشا میں شامل مضامین میں سے کوئی سے تین (3) عنوانات کا انتخاب کیا جائے اور ان میں سے کسی ایک عنوان پر مضمون لکھنے کو کہا جائے۔ (اُردو قواعد و انشا: ص105 تا145)
سوال:7 **تفہیمِ عبارت**	کل نمبر:10	اُردُو قواعد و انشا میں شامل عبارات میں سے کوئی ایک عبارت، تفہیم کے لیے منتخب کی جائے اور اس کے آخر میں دیے گئے پانچ (5) سوالات کے جوابات لکھنے کو کہا جائے۔ (اُردُو قواعد و انشا: ص147 تا156)



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اُردو (لازمی)	(معروضی طرز)	ماڈل پیپر (جماعت دہم)	وقت: 20 منٹ	کل نمبر: 15

سوال 1: ہر سوال کے چار ممکنہ جوابات A، B، C اور D دیے گئے ہیں۔ درست جواب کی نشان دہی کریں۔ (15=15 x 1)

نمبر شمار	سوالات	(A)	(B)	(C)	(D)
i	ہم نے چودھری کو قدم قدم پر شکست دی لیکن چودھری کی سیاست ہم سے کھی:	طاقت ور	زوردار	تگڑی	مختلف
ii	کوئی باہر کا آدمی اگر بے باکی سے گفتگو کرتا تو آپؐ:	تحمل فرماتے	خاموش رہتے	پُرسکون رہتے	اِغماض فرماتے
iii	سبودھ چندر ذہین تھا مگر نہ تھا:	معاملہ فہم	بُردبار	مردم شناس	موقع شناس
iv	صفحوں کی تعداد کو دنوں کی تعداد پر تقسیم کیا، جواب آیا:	تین سَو	چار سَو	ساڑھے چار سَو	ساڑھے پانچ سَو
v	''ہوادار'' نام ہے ایک:	دیوان خانے کا	زنان خانے کا	تیز گھوڑے کا	پالکی کی قسم کی سواری کا
vi	کبوتروں کے پاس ہی درخت پر ایک جوڑا رہتا تھا:	تیتروں کا	گِدھوں کا	فاختاؤں کا	ہنسوں کا
vii	بابو مداری لال نئے سیکرٹری سبودھ چندر کا تھا:	دوست	ہمسایہ	رشتے دار	ہم جماعت
viii	''آدمی نامہ'' کا بنیادی موضوع ہے:	عشق و محبت	دین و مذہب	تفریقِ انسانیت	جزا و سزا
ix	مشہور بادشاہ ''دارا'' کا تعلق تھا:	قدیم یونان سے	قدیم مصر سے	قدیم ایران سے	قدیم روم سے
x	''مشقِ سخن'' کا مطلب ہے:	شاعری کی مشق	گفت گو کی مشق	خطابت کی مشق	موسیقی کی مشق
xi	ذو معنی لفظ ''عرض'' کے معانی ہیں:	چوڑائی، لمبائی	لمبائی، التماس	چوڑائی، التماس	موٹائی، چوڑائی
xii	درست تلفظ کا انتخاب کریں:	مُشاعِرہ	مُشاعَرہ	مَشاعِرہ	مَشاعَرہ
xiii	استعارہ کے ارکان کی تعداد ہے:	ایک	دو	تین	چار
xiv	ان الفاظ میں سے اسمِ معرفہ ہے:	شہر	فیصل آباد	انسان	گاؤں
xv	حرفِ جار کی مثال ہے:	کیوں	اور	پر	ارے

اُردو (لازمی)	(انشائی طرز)	ماڈل پیپر (جماعت دہم)	وقت: 2:10 گھنٹے	کل نمبر: 60

سوال 2: درج ذیل نظم و غزل کے اشعار کی تشریح کیجیے۔ (حصہ نظم سے 3 اور حصہ غزل سے 2 اشعار منتخب کیجیے) 2x5=10

حصہ نظم:

(i) مرے سرکار کے نقشِ قدم شمعِ ہدایت ہیں — یہ وہ منزل ہے جس کو مغفرت کا راستا کہیے

(ii) مگر وہ علم کے موتی، کتابیں اپنے آبا کی — جو دیکھیں ان کو یورپ میں تو دل ہوتا ہے سیپارا

(iii) انساں زمیں پہ محو، ملک آسمان پر — جاری تھا ذکرِ قدرتِ حق ہر زُبان پر

(iv) دنیا میں پادشاہ ہے، سو ہے وہ بھی آدمی — اور مفلس و گدا ہے، سو ہے وہ بھی آدمی

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حصہ غزل:

(v) مت پوچھ کہ کیا حال ہے میرا ترے پیچھے — تُو دیکھ کہ کیا رنگ ہے تیرا مرے آگے

(vi) حالِ دلِ یار کو لکھوں کیوں کر — ہاتھ دل سے جُدا نہیں ہوتا

(vii) برسات کے آتے ہی توبہ نہ رہی باقی — بادل جو نظر آئے بدلی مری نیت بھی

سوال 3: درج ذیل نثر پاروں میں سے کسی ایک کی تشریح کیجیے۔ سبق کا عنوان، مصنف کا نام اور خط کشیدہ الفاظ/تراکیب کے معانی بھی تحریر کیجیے۔ 1+1+3+5=10

(الف) بعضے بچے ابتدا میں نہایت ذکی اور طباع اور اپنے ہمجولیوں میں سب سے زیادہ تیز اور ہوشیار ہوتے ہیں، سرسیّد میں کوئی اس قسم کا صریح امتیاز نہ تھا۔ معلوم ہوتا ہے کہ اُنھوں نے اپنے قوائے ذہنیہ کو محض دماغی ریاضت اور لگاتار غور و فکر سے بتدریج ترقی دی تھی اور اسی لیے ان کی لائف کا آغاز معمولی آدمیوں کی زندگی سے کچھ زیادہ چمک دار معلوم نہیں ہوتا لیکن جس قدر آگے بڑھتے جایئے اُسی قدر اِس میں زیادہ عظمت پیدا ہوتی جاتی ہے، یہاں تک کہ ہیرو کو معمولی آدمیوں کی سطح سے بالاتر کر دیتی ہے۔ اسی لیے بعض حکما کی یہ رائے ہے کہ محنت سے آدمی جو چاہے، سو کر سکتا ہے۔

(ب) بھٹے پر دشمن نے اپنا مورچا لگایا تھا۔ اس کے نشان صاف نظر آ رہے تھے۔ میری کُٹیا کا نام و نشان باقی نہیں رہا تھا۔ گاؤں تک جانے والی اینٹوں کی سڑک پس کر چُورا ہو چکی تھی اور اس میں گڑھے پڑ چکے تھے۔ اس کے ساتھ ساتھ لگے بجلی کے کھمبے غائب تھے۔ گاؤں تک پہنچتے پہنچتے میرا دل سنسان اور ویران ہو چکا تھا اور یوں لگ رہا تھا جیسے شام پڑ چکی ہو حالاں کہ ابھی دھوپ تیز تھی اور اس میں ڈھلتے سورج کی زردی بھی نہیں رچی تھی۔ ابھی ہم گاؤں سے سو دو سو قدم کے فاصلے پر تھے کہ اس کی ویرانی نے ہمیں لپک کر آ لیا جیسے وہ ہمارا استقبال کر رہی ہو۔ دلوں میں اتری ہوئی شام اور بھی گہری ہو گئی۔

سوال 4: درج ذیل میں سے کوئی سے پانچ سوالات کے مختصر جوابات تحریر کیجیے۔ 2x5=10

(i) سرسیّد احمد خاں کو بادشاہ کے دربار سے کیا انعام ملا؟

(ii) کبوتری کو ہر وقت کس بات کی فکر لگی رہتی تھی؟

(iii) صبح سویرے پڑوسی کی ''گولا باری'' سے کیا مراد ہے؟

(iv) بابو مداری لال نے اپنی زیادتیوں کا کفارہ کیسے ادا کیا؟

(v) ''لاکھ پردوں میں تُو ہے بے پردہ'' سے کیا مراد ہے؟

(vi) نظم ''نمودِ صبح'' میں شبنم کے قطروں کو کس سے تشبیہ دی گئی ہے؟

(vii) حسرت موہانی نے ''چکی کی مشقت'' کس سلسلے میں برداشت کی تھی؟

(viii) غالب کے نزدیک یہ دنیا ''بازیچۂ اطفال'' کیوں ہے؟

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سوال 5: درج ذیل میں سے کسی ایک نثری سبق کا خلاصہ تحریر کیجیے۔ 5

(i) کفارہ

(ii) دوستی کا پھل

سوال 6: درج ذیل عنوانات میں سے کسی ایک عنوان پر مضمون لکھیے۔ 15

(i) اطاعتِ والدین

(ii) جہیز ایک لعنت

(iii) فوگ اور سموگ: اسباب، اثرات اور تدارک

سوال 7: درج ذیل عبارت کو غور سے پڑھیے اور نیچے دیے گئے سوالات کے مختصر جوابات تحریر کیجیے۔ 2x5=10

مختلف انسان مختلف زبانیں بولتے ہیں۔ زبانوں کو ان کے ماہروں نے مختلف خاندانوں میں تقسیم کر رکھا ہے۔ ان میں دو خاندان بہت مشہور ہیں: ایک سامی اور دوسرا آریائی۔ سامی خاندان میں عربی اور عبرانی وغیرہ شامل ہیں۔ آریائی خاندان میں نہ صرف پاکستان اور ہندوستان کی بہت سی زبانیں شامل ہیں بلکہ یونانی، اطالوی، جرمن، فرانسیسی اور انگریزی زبانوں کا شمار بھی اسی خاندان میں ہوتا ہے۔ دراصل آریائی خاندان زبانوں کا بہت بڑا خاندان ہے اور اس سلسلے کا کوئی دوسرا خاندان اس کی وسعت کی برابری نہیں کر سکتا۔ زبانوں کے آریائی خاندان کی شعاعیں پاکستان، ہندوستان، ایران، انگلستان اور یورپ کے مختلف ممالک تک پھیلی ہوئی ہیں۔

سوالات:

(i) زبانوں کے دو مشہور خاندان کون کون سے ہیں؟

(ii) عربی اور انگریزی زبانیں، زبانوں کے کس خاندان سے تعلق رکھتی ہیں؟

(iii) آریائی خاندان کی جن زبانوں کا اوپر ذکر کیا گیا ہے، ان کے نام لکھیے۔

(iv) ہماری قومی زبان اُردو کا تعلق کس خاندان سے ہے؟

(v) دنیا کے کون کون سے ممالک ایسے ہیں جہاں آریائی خاندان کی زبانیں بولی جاتی ہیں؟

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Revised Smart Syllabus / Accelerated Learning Programme (ALP)
Mathematics Grade-10
for Academic Session 2026-27 & BISE Exam-2027

Name of the Unit	Excluded Content & Questions of Mathematics-10
1 Complex Numbers	• 1.3.3 Properties of Complex Conjugate (Properties 1 to 4 with proofs), Examples 11 to 14; Pages # 11 to 13. • 1.4.1 Properties of Modulus of a Complex Number (Properties 1 to 3 with proofs), Examples 15 & 16; Pages # 14 to 16. • Exercise # 1.3: Q # 2, 3 & 4; Page # 16. • 1.6 Solution of Simultaneous Linear Equations with Complex Coefficients, Example 21; Page # 19. • Exercise # 1.4: Q # 2 (Complete); Page # 20. • Review Exercise # 1: Q # 5 & 8; Page # 21.
2 Quadratic Equations and Inequalities	• 2.1.1 (d) Solution of quadratic equation by graphs, Example 5. Pages # 27 to 28. • Exercise # 2.1: Q # 5 page # 29 • 2.2.3 Finding Points of Intersection of a Linear Function and a Quadratic Function Graphically, Example 8; Page # 31. • Exercise # 2.2: Q # 3; Page # 32. • Examples # 12 & 13; Pages # 35 to 36. • Exercise # 2.3: Q # 4, 8 & 9; Page # 36. • 2.5 Solution of Quadratic Inequalities in One Unknown, Examples 16 & 17; Pages # 39 to 41. • Exercise # 2.5 (Complete); Page # 41. • 2.7 Applications of Quadratic Equation in Real World, Examples 19 to 21; Pages # 43 to 45. • Exercise # 2.7 (Complete); Page # 45.
3 Matrices and Determinants	• 3.4.2 Associative Law of Multiplication of Matrices and 3.4.3 Distributive Laws of Multiplication over Addition and Subtraction; Pages # 62 to 64. • Exercise # 3.4: Q # 2 (ii, iii & v); Page # 65. • Challenge ($(AB)^{-1} = B^{-1}A^{-1}$); Page # 67. • Exercise # 3.5: Q # 8; Page # 70. • 3.7 Applications of Matrices in Real World Problems, Examples 12 & 13; Pages # 75 to 77. • 3.8 The Role of Mathematics in Scientific Theories and Technological Advancement; Page # 77. • Exercise # 3.6: Q # 3 to 9; Pages # 78 to 79. • Review Exercise # 3: Q # 3 (iii, iv, v & viii), Q # 6, 7 & 8; Page # 80.

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Name of the Unit	Excluded Content & Questions of Mathematics-10
4 **Functions and Graphs**	• 4.5 Solving Real life Problems Involving Functions, Example # 15, 16; Pages # 92, 93. • 4.6 Solving Real life Problems Involving Absolute Valued Function, Examples 17 to 18; Page # 93. • Exercise # 4.3: Complete; Page # 94 • Review Exercise # 4: Q # 9 to 11; Page # 96.
5 **Algebraic Fractions**	• 5.3 Type (ii) Exponential Equations, Type (iii) Reciprocal Equations and Type (iv) $(x + a)(x + b)(x + c)(x + d) = k$, Examples 11 to 13; Pages # 103 to 106. • Exercise # 5.4: Q # 1 (iv to xii); Pages # 106 to 107. • 5.4 Real World Problems Example # 14 &15; Pages # 107 to 108. • Exercise # 5.5 (Complete); Pages # 108 to 109. • Review Exercise # 5: Q # 1 (vii, viii), Q # 4 (iii to vii), Q# 5, 6 & 7; Page # 110.
6 **Vectors in Plane**	• 6.6 Translation by Vector: Example 9; Pages 119 to 120. • 6.7 Solution and Application of Geometric Problems Involving Vectors, Examples 10 to 13; Pages # 120 to 122. • Exercise # 6.3: (Complete); Pages # 122 to 123. • Review Exercise # 6: Q # 1 (vii), Q # 6, 7, 8, 9 & 10; Page # 124.
7 **Trigonometry**	• 7.3 Solve Simple Trigonometric Problems in Three Dimensions, Examples 8 & 9; Pages # 134 to 135. • Exercise # 7.3: Q # 1 to 5; Pages # 136 to 137. • 7.5 Three Figure Bearing — Example 12, 13 & 14; Pages # 138 to 139. • Exercise # 7.4: (Complete); Page # 139, 140. • Review Exercise # 7: Q # 1 (ix, x), Q # 4, 5, 6 & 7; Page # 142.
8 **Chords and Arcs of a Circle**	• 8.1.6 to 8.1.9 Theorems on Congruent Arcs, Chords and Central Angles, Examples 8 to 11; Pages # 151 to 152. • Exercise # 8.2 (Complete); Page # 153. • Review Exercise # 8: Q # 4 to 8; Page # 154.
9 **Tangent and Angles of a Circle**	• Exercise # 9.1: Q # 4, 5, 9 & 10; Pages # 160. • Exercise # 9.2: Q # 4, 5, 6 & 7; Page # 165. • Review Exercise # 9: Q # 4, 5, 6 & 7; Pages # 166 to 167.
10 **Practical Geometry of Circles**	• 10.1.4 Complete a Circle without Finding its Centre when a part of its circumference (Arc) is given; Pages # 170 to 171. • Exercise # 10.1: Q # 4 & 7; Page # 171. • Exercise # 10.2: Q # 1, 2, 3 & 4; Page # 174. • Review Exercise # 10: Q # 5 & 6; Page # 175.

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Name of the Unit	Excluded Content & Questions of Mathematics-10
11 Information Handling	• 11.1.1 Cumulative Frequency Polygon or Ogive and 11.1.2 Steps for Construction of Ogive; Page # 178. • Examples # 2 & 3; Pages # 179 to 181. • Exercise # 11.1: Q # 1, 2, 3, 5, 8 & 9; Page # 186 to 187. • Variance and Standard Deviation for Grouped Data, Example 11; Page # 191. • Exercise # 11.2: Q # 6, 7 & 10 and Q # 13 (ii & iii); Pages # 193 to 194. • Review Exercise # 11: Q # 2, 4, 6 & 9; Pages # 194 to 195.
12 Probability	• 12.2 (i) Addition Law for Non-Mutually Exclusive Events, Examples 8 & 10; Pages # 205 to 207. • Exercise # 12.2: Q # 1, 2, 7, 9, 13 & 14; Pages # 207 to 208. • 12.3 Multiplication Law of Probability (Independent Events, Dependent Events and Conditional Probability), Examples 11 to 13; Pages # 208 to 209. • Exercise # 12.3 (Complete); Page # 210. • Review Exercise # 12: Q # 3, 4, 5 & 6; Page # 211.

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Instructions for Preparation of Exam Paper of Mathematics for Grade-10

- **The paper of Mathematics for Grade-10 will consist of 75 marks.**
- **Objective Type = 15 marks & Subjective Type = 60 marks.**
- **Timing of the paper will be 2:30 hours.**
- **Objective Type = 20 minutes + Subjective Type = 2:10 hours.**
- **The paper will be made as per following details:**

<table>
<tr><td>Objective (MCQs)</td><td>Q-1: There will be 15 Multiple Choice Questions (MCQs) from the entire content of the textbook. The detail is as follows:
One MCQ each from chapters 1, 2, 3, 4, 5, 6, 7, 8 and 10 and two MCQs each from chapters 9, 11, and 12.</td><td>1 × 15 = 15</td></tr>
<tr><td>Part-I: Subjective</td><td>This section contains three (3) short questions. The detail is as follows:
Q-2: Students are required to attempt any 6 out of 9 short questions. The details are as follows:
<table>
<tr><th>Chapter</th><th>No. of SAQs</th><th>Chapter</th><th>No. of SAQs</th></tr>
<tr><td>1</td><td>2</td><td>2</td><td>3</td></tr>
<tr><td>3</td><td>2</td><td>4</td><td>2</td></tr>
</table>
Q-3: Students are required to attempt any 6 out of 9 short questions. The details are as follows:
<table>
<tr><th>Chapter</th><th>No. of SAQs</th><th>Chapter</th><th>No. of SAQs</th></tr>
<tr><td>5</td><td>2</td><td>6</td><td>3</td></tr>
<tr><td>7</td><td>2</td><td>8</td><td>2</td></tr>
</table>
Q-4: Students are required to attempt any 6 of the 9 short questions. The details are as follows:
<table>
<tr><th>Chapter</th><th>No. of SAQs</th><th>Chapter</th><th>No. of SAQs</th></tr>
<tr><td>9</td><td>2</td><td>10</td><td>2</td></tr>
<tr><td>11</td><td>3</td><td>12</td><td>2</td></tr>
</table></td><td>2 × 6 = 12
2 × 6 = 12
2 × 6 = 12</td></tr>
<tr><td>Part-II: Subjective:</td><td>This section will contain three (3) long questions bifurcated in two-parts a & b (carrying 4 marks each) and students have to attempt two questions. The detail is as follows:
Q-5: (a) One long-answer question will be selected from chapter 1.
(b) One long-answer question will be selected from chapter 2.
Q-6: (a) One long-answer question will be selected from chapter 3.
(b) One long-answer question will be selected from chapter 4.
Q-7: (a) One long-answer question will be selected from chapter 5.
(b) One long-answer question will be selected from chapter 7.</td><td>2 × 8 = 16</td></tr>
</table>

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Part-III: Subjective:	This section will contain two long questions bifurcated in two-parts **a & b** (carrying 4 marks each) and students have to attempt one question. The detail is as follows: **Q-8:** **(a)** One long-answer question will be selected from chapter 6. **(b)** One long-answer question will be selected either from chapter 8 or chapter 11. **Q-9:** **(a)** One long-answer question will be selected from chapter 10. **(b)** One long-answer question will be selected either from chapter 9 or chapter 12.	1 × 8 = 8

MODEL PAPER OF MATHEMATICS FOR GRADE-10

Annual Examination 2027 — Smart Syllabus / ALP Academic Session 2026-27

OBJECTIVE TYPE

Time Allowed: 20 mins. **Max. Marks: 15**

Note: Encircle the correct answer. Each question carries one mark.

Cutting or overwriting in an MCQ cancels that answer. **(1 × 15 = 15)**

No.	Questions	A	B	C	D
i	Imaginary part of $(2 - i)(2 + i)$ is:	0	1	7	9
ii	Sum of the roots of $3x^2 + 5x - 12 = 0$ is:	$\frac{5}{3}$	$-\frac{5}{3}$	$\frac{12}{3}$	$\frac{3}{5}$
iii	If $A = \begin{bmatrix} 3 & 1 & 3 \\ 2 & 0 & 2 \end{bmatrix}$, then order of A^t is:	3-by-2	2-by-3	3-by-3	2-by-2
iv	If $f(x) = x^2 - 4$, $g(x) = x + 2$, $x \neq -2$, then $\frac{f(x)}{g(x)} =$	$\frac{1}{x - 2}$	$\frac{1}{x + 2}$	$x + 2$	$x - 2$
v	Lowest form of $\frac{18a^2bc^2}{12ac}$ is:	$\frac{9abc}{6}$	$\frac{3abc}{2}$	$\frac{18b}{12}$	$\frac{3}{2}$
vi	What is the value of $\lvert 3\underline{i} + 4\underline{j} \rvert$?	3	4	5	7
vii	cosec θ is positive in:	I & III quadrants	II & IV quadrants	I & II quadrants	I & IV quadrants
viii	A chord passing through the centre of the circle is called:	radius	diameter	secant	circumference
ix	In a circle, radius and tangent are:	parallel	equal	perpendicular	zero
x	What is the measure of an angle inscribed in a semi-circle?	45°	60°	90°	120°

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No.	Questions	A	B	C	D
xi	Tangents drawn from a single external point to a circle are:	unequal in length	perpendicular to each other	equal in length	inside the circle
xii	Difference between the highest and the lowest values is called:	mean	variance	range	standard deviation
xiii	Variance of the data 8, 8, 8, 8, 8, 8 is:	0	16	8	48
xiv	If one coin is tossed and one dice is rolled, then the number of sample points are:	3	6	2	12
xv	If $P(E) = 0.07$, then the probability of 'not E' is:	0.95	0.89	0.93	0.90

SUBJECTIVE TYPE

Time Allowed: 2:10 hrs. **Max. Marks: 60**

(Part-I)

2. Attempt any SIX of the following: (Units 1, 2, 3 & 4) **(2 × 6 = 12)**

(i) Simplify: $\left(\frac{i^8}{i^5}\right)^{-5}$

(ii) Find the values of a and b, if $(a + bi)(1 + 3i) = -8 + 11i$.

(iii) Solve the quadratic equation by factorization method: $6x^2 + 13x - 5 = 0$

(iv) Form a quadratic equation whose roots are $3 + \sqrt{5}$, $3 - \sqrt{5}$.

(v) If the quadratic equation $16x^2 + 7px + 49 = 0$ has equal roots, then find the values of p.

(vi) If $X = \begin{bmatrix} 1 & -1 \\ -2 & 2 \end{bmatrix}$ and $Z = \begin{bmatrix} 3 & 0 \\ 0 & -2 \end{bmatrix}$, then find $4X - Z$.

(vii) Find the value of x when $A = \begin{bmatrix} x & 6 \\ 5 & 15 \end{bmatrix}$ is a singular matrix.

(viii) Given that $f(x) = 3x + 2$ and $g(x) = 2x + 3$. Find $f(g(-2))$.

(ix) Solve and express the solution on number line: $|7 - 2x| = 1$

3. Attempt any SIX of the following: (Units 5, 6, 7 & 8) **(2 × 6 = 12)**

(i) Reduce to lowest form: $\frac{3x^2 + 6x}{x^2 + 4x + 4}$

(ii) Simplify: $\frac{2}{x + 2y} - \frac{x - 6y}{x^2 - 4y^2}$

(iii) Write the vector $\overline{AB}$ in the form $x\underline{i} + y\underline{j}$, where $A(1, -7)$ and $B(-2, 4)$.

(iv) Find a unit vector in the direction of the vector $\underline{a} = 6\underline{i} + 8\underline{j}$.

(v) If $\underline{a} = \underline{i} + 3\underline{j}$, $\underline{c} = 2\underline{i} + \underline{j}$ and $\underline{a} + 2\underline{b} = \underline{c}$, then find $|\underline{b}|$.

(vi) Without using calculator, find the exact value of cot 120°.

(vii) Calculate area of triangle ABC, in which $a = 7$ cm, $b = 8$ cm, $\gamma = 38°$.

(viii) A chord 8 cm long is at a distance of 3 cm from the centre. Calculate the radius of the circle.

(ix) In a circle with centre at O, the perpendicular distance of the each chord PQ and RS from the centre is 6 cm. If the length of chord PQ is 18 cm, find the length of the other chord.

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4. Attempt any SIX of the following. (Units 9, 10, 11 & 12) **(2 × 6 = 12)**

(i) In a historical monument, a circular fountain with a radius of 3 m is built. A flagpole is erected 7 m away from the centre of the fountain. Two ropes from the pole are tied to the edge of the fountain, just touching it. Find the length of each rope.

(ii) Find ℓ and area of sector, when $r = 1.7$ cm, $\theta = 0.25$ radian.

(iii) Construct a circle with the help of given radius $r = 1.7$ cm.

(iv) Take any three non-collinear points P, Q, R and construct a circle passing through these points.

(v) Draw the box-and-whisker plot, if min. value = 12, max. value = 26, median = 19, $Q_1 = 14$ and $Q_3 = 24$.

(vi) Find the range of the data set: 63, 89, 98, 125, 79, 108, 117, 60

(vii) A librarian recorded the number of visitors during 5 days of a week: 120, 135, 130, 125, 140. Calculate the variance and standard deviation of visitors.

(viii) Find the probability of getting a sum of 5 or 7 in a throw of two dice.

(ix) If A and B are two mutually exclusive events of a random experiment and $P(\text{not } A) = 0.45$, $P(A \cup B) = 0.65$, then find $P(B)$.

(Part-II)

Note: Attempt any TWO questions from Q. 5 to Q. 7. Each part carries 4 marks. **(2 × 8 = 16)**

5: (a) Find the real and imaginary parts of the complex number $\left(\frac{2-i}{2+i}\right)^{-2}$. **(4)**

(b) Use quadratic formula to solve the equation: $\frac{3x-3}{x+1} = \frac{2x-1}{x-1}$, $x \neq -1, 1$ **(4)**

6: (a) Use Cramer's rule to solve the following pair of linear equations: $x + 2y = 7$, $3x - 2y = -3$ **(4)**

(b) The functions f and g are defined such that $f(x) = 4x + 2$ and $g(x) = 6x - 18$. (i) Find $f^{-1}(x)$ and $g^{-1}(x)$. (ii) Find x if $f^{-1}(x) = g^{-1}(x)$. **(4)**

7: (a) Solve the equation: $4x^4 - 27x^2 + 18 = 0$ **(4)**

(b) Solve the triangle ABC, in which $b = 4.8$ cm, $a = 4$ cm, $\beta = 71°$. **(4)**

(Part-III)

Note: Attempt any ONE question from Q. 8 and Q. 9. Each part carries 4 marks. **(1 × 8 = 8)**

8: (a) If $\underline{a} = 3\underline{i} - \underline{j}$, $\underline{b} = -2\underline{i} + 4\underline{j}$ and $\underline{c} = \underline{i} + 2\underline{j}$, then find unit vector parallel to $3\underline{a} - 2\underline{c} + 4\underline{b}$. **(4)**

(b) Machine A Output (units): 98, 100, 102, 101, 99. Machine B Output (units): 95, 100, 105, 90, 110. **(4)**

(i) Which machine has better performance?

(ii) Which machine is more consistent?

9: (a) Draw a circle of radius 1.5 cm and draw a tangent at point P, when P is at a distance of 8 cm from its centre. **(4)**

(b) A dice is rolled and coin is tossed together. **(4)**

(i) Find sample space by drawing possibility diagram.

(ii) Find sample space by sketching tree diagram.

(iii) What is a probability of getting a tail and an even number?

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PECTAA Transformation, Innovation and Excellence	**Revised Smart Syllabus / Accelerated Learning Programme (ALP) of Pakistan Studies Grade-10 for Academic Session 2026-27 & BISE Exam 2027**

سمارٹ سلیبس (ALP)

برائے مضمون مطالعہء پاکستان جماعت دہم تعلیمی سیشن 27-2026ء

مطالعہء پاکستان برائے جماعت دہم کی درسی کتاب میں سے طلبہ کی سہولت کے پیش نظر دو ابواب حذف کیے جا رہے ہیں تا کہ طلبہ آٹھ کے بجائے چھے اسباق پر توجہ مرکوز کرتے ہوئے بھرپور تیاری کر سکیں۔

حذف شدہ ابواب کی تفصیل:

باب چہارم	پاکستان کا جغرافیہ	صفحہ 62 تا 83
باب ہفتم	آبادی معاشرہ اور پاکستان میں ثقافتی تنوع	صفحہ 108 تا 133

امتحانی بورڈز کے پرچہ مرتبین (Paper Setters) کے لیے لازم ہے کہ سوالیہ پرچہ ترتیب دیتے ہوئے درج بالا ابواب میں سے معروضی، انشائی اور دیگر نوعیت کے سوالات میں سے کوئی سوال یا جزو شامل نہ کریں۔

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امتحانی پرچہ مطالعہء پاکستان برائے جماعت دہم کی تیاری کے لیے ہدایات

ممتحنین (Paper Setters) کے لیے ضروری ہدایات

مطالعہء پاکستان برائے جماعت دہم کا سالانہ پرچہ 100 نمبروں پر مشتمل ہوگا، جس کے لیے طلبہ کو تین گھنٹے کا وقت دیا جائے گا۔ یہ پرچہ تین اجزا پر مشتمل ہوگا جس کی تقسیم (Pairing Scheme) حسب ذیل ہے:

حصّہ اوّل: کثیر الانتخابی سوالات (کل نمبر 20)

حصّہ دوم: مختصر جوابی سوالات (کل نمبر 50)

حصّہ سوم: مفصل جوابی سوالات (کل نمبر 30)

مطالعہ پاکستان برائے جماعت دہم کے مندرجہ بالا تینوں حصوں کے مختلف سوالات کی تیاری کے لیے درج ذیل ہدایات کو ملحوظ رکھیں:

حصّہ اوّل	سوال نمبر 1: کثیر الانتخابی سوالات (MCQs)	1×20= 20 کل نمبر 20	کثیر الانتخابی سوالات کی تیاری کے لیے پوری کتاب (ماسوائے باب چہارم و ہفتم) کے متن کو ملحوظ رکھیں جس کی تقسیم حسب ذیل ہے: کثیر الانتخابی سوالات باب اوّل، باب دوم میں سے تین تین سوالات، باب سوم میں سے پانچ، باب پنجم میں سے تین، باب ششم میں سے تین اور باب ہشتم میں سے تین کثیر الانتخابی سوالات بنائے جائیں۔
حصّہ دوم	سوال نمبر 2: مختصر جوابی سوالات	2×8=16 کل نمبر 16	اس حصے میں کل بارہ (12) مختصر جوابی سوالات بنائے جائیں جن میں سے کوئی سے آٹھ (8) سوالات کے مختصر جواب دینے کا کہا جائے۔ اس حصے میں باب دوم میں سے سات اور باب ششم میں سے پانچ سوالات پوچھے جائیں اور صرف مشقوں میں دیے گئے مختصر سوالات ہی پرچے میں شامل کیے جائیں۔

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	سوال نمبر 3: مختصر جوابی سوالات	16=8×2 کل نمبر 16	اس حصے میں کل بارہ (12) مختصر جوابی سوالات بنائے جائیں جن میں سے کوئی سے آٹھ (8) سوالات کے مختصر جواب دینے کا کہا جائے۔ اس حصے میں باب پنجم میں سے سات اور باب ہشتم میں سے پانچ سوالات پوچھے جائیں اور صرف مشقوں میں دیے گئے مختصر سوالات ہی پرچے میں شامل کیے جائیں۔
	سوال نمبر 4: مختصر جوابی سوالات	18=9×2 کل نمبر 18	اس حصے میں کل تیرہ (13) مختصر جوابی سوالات بنائے جائیں جن میں سے کوئی سے نو (9) سوالات کے مختصر جواب دینے کا کہا جائے۔ اس حصے میں باب اوّل میں سے چھے اور باب سوم میں سے سات سوالات پوچھے جائیں اور صرف مشقوں میں دیے گئے مختصر سوالات ہی پرچے میں شامل کیے جائیں۔
حصّہ سوم	سوال نمبر 5: مفصل جوابی سوالات	30=10×3 کل نمبر 30	کتاب کی مشقوں (ماسوائے باب چہارم و ہفتم) میں دیے گئے مفصل جوابی سوالات میں سے ہی پانچ (5) سوالات دیے جائیں اور ان میں سے کوئی سے تین سوالوں کا جواب پوچھا جائے۔ ہر سوال کا جواب دس (10) نمبر پر مشتمل ہوگا۔ ان پانچ (5) سوالوں کے لیے اجزا کا انتخاب درج ذیل ترتیب کے مطابق کیا جائے: (i) پہلا جزو باب اوّل سے لیا جائے۔ (ii) دوسرا جزو باب دوم سے لیا جائے۔ (iii) تیسرا جزو باب سوم سے لیا جائے۔ (iv) چوتھا جزو باب پنجم سے لیا جائے۔ (v) پانچواں جزو باب ششم یا ہشتم سے لیا جائے۔

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ماڈل پرچہ مطالعہء پاکستان برائے جماعت دہم

وقت: 3 گھنٹے　　کل نمبر: 100

حصہ معروضی (کثیر الانتخابی سوالات)

سوال 1: ہر سوال کے چار ممکنہ جوابات دیے گئے ہیں۔ جوابی کاپی پہ درست جواب کے مطابق متعلقہ دائرے کو مار کر یا پین سے بھر دیں۔ **(20 × 1)**

(i) بنارس میں اردو ہندی تنازع پیدا ہوا:

(الف) 1863ء میں　(ب) 1865ء میں　(ج) 1867ء میں　(د) 1869ء میں

(ii) 1206ء میں سلطنت دہلی کی بنیاد رکھی:

(الف) محمود غزنوی نے　(ب) شہاب الدین غوری نے　(ج) قطب الدین ایبک نے　(د) ظہیر الدین بابر نے

(iii) قائداعظم رحمۃ اللہ علیہ نے سٹیٹ بینک آف پاکستان کا افتتاح کیا:

(الف) ستمبر 1947ء میں　(ب) دسمبر 1947ء میں　(ج) جنوری 1948ء میں　(د) جولائی 1948ء میں

(iv) علما نے برصغیر کو قرار دیا:

(الف) دارالحرب　(ب) دارالسّلام　(ج) دارالامان　(د) دارالسلطنت

(v) 1938ء میں محمد علی جناح کو قائداعظم رحمۃ اللہ علیہ کے لقب سے نوازا گیا:

(الف) دہلی میں　(ب) لاہور میں　(ج) ممبئی میں　(د) پٹنہ میں

(vi) ایم اے او سکول اور کالج قائم کیا:

(الف) سرسید احمد خاں نے　(ب) چودھری رحمت علی نے　(ج) قاضی محمد عیسیٰ نے　(د) مولوی فضل الحق نے

(vii) قرارداد مقاصد منظور ہوئی:

(الف) 1930ء میں　(ب) 1940ء میں　(ج) 1946ء میں　(د) 1949ء میں

(viii) پاکستان اور بھارت کے درمیان کارگل کے مقام پر جنگ ہوئی:

(الف) 1998ء میں　(ب) 1999ء میں　(ج) 2008ء میں　(د) 2009ء میں

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(ix) نواز شریف حکومت میں دس سالہ تعلیمی منصوبہ کا اعلان کیا:

(الف) 1992ء میں (ب) 1993ء میں (ج) 1997ء میں (د) 1998ء میں

(x) پاکستان کے پہلے اور واحد سویلین چیف مارشل لا ایڈمنسٹریٹر تھے:

(الف) ایوب خان (ب) یحییٰ خان (ج) ذوالفقار علی بھٹو (د) پرویز مشرف

(xi) روسی افواج افغانستان میں داخل ہوئیں:

(الف) 1976ء میں (ب) 1977ء میں (ج) 1978ء میں (د) 1979ء میں

(xii) پاکستان اور بھارت کے درمیان شملہ معاہدہ ہوا:

(الف) 1965ء میں (ب) 1966ء میں (ج) 1971ء میں (د) 1972ء میں

(xiii) عوامی جمہوریہ چین کا قیام عمل میں آیا:

(الف) 1947ء میں (ب) 1949ء میں (ج) 1951ء میں (د) 1953ء میں

(xiv) اقوام متحدہ کی سلامتی کونسل کے مستقل ارکان کی تعداد ہے:

(الف) 3 (ب) 5 (ج) 7 (د) 9

(xv) ایک مشینی آلہ ہے جسے راکٹ کے ذریعے زمین کے مدار میں چھوڑا جاتا ہے:

(الف) سیٹلائیٹ (ب) فیکس مشین (ج) سکیورٹی ٹول (د) وائرلیس ٹول

(xvi) پاکستان اکنامک سروے 25-2024ء کے مطابق گندم کی پیداوار ہے:

(الف) 26 ملین ٹن (ب) 29 ملین ٹن (ج) 33 ملین ٹن (د) 36 ملین ٹن

(xvii) پاکستان میں زیر کاشت رقبہ ہے:

(الف) قریباً 20 فی صد (ب) قریباً 25 فی صد (ج) قریباً 30 فی صد (د) قریباً 35 فی صد

(xviii) حج کے موقع پر صفا اور مروہ کے درمیان دوڑنا سنت ہے:

(الف) حضرت عائشہ رضی اللہ عنہا کی (ب) حضرت خدیجہ رضی اللہ عنہا کی

(ج) حضرت حاجرہ علیہا السلام کی (د) حضرت حوا علیہا السلام کی

(xix) 1925ء میں کراچی میں اصلاح الخواتین کے نام سے ایک انجمن قائم کی:

(الف) لیڈی نصرت ہارون نے (ب) بیگم راعنا لیاقت علی خان نے

(ج) محترمہ فاطمہ جناح نے (د) بیگم شائستہ اکرام اللہ نے

(xx) خواتین تشدد کے خلاف کس نمبر پر شکایات کر سکتی ہیں:

(الف) 1016 (ب) 1030 (ج) 1043 (د) 1085

حصہ انشائی (حصہ اوّل)

سوال 2: درج ذیل میں سے آٹھ سوالات کے مختصر جوابات دیں۔ (8 × 2 = 16) نمبر

(i) تحریک علی گڑھ کے مقاصد تحریر کریں۔ (ii) ریڈکلف ایوارڈ کا اہم ترین فیصلہ کیا تھا؟

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Revised Smart Syllabus / Accelerated Learning Programme (ALP)
General Science Grade-10 (Tech) for Academic Session 2026-27 & BISE Exam-2027

Chapter No.	Chapter Name	Reduced Topics	Page No.	Exercise Questions
7	Energy	7.3 Interconversion of Energy	4	Q.7 Q.4 (i, vi)
		7.8 Degradation of Environment	12	Q.3 (v) Q.4 (iv)
8	Current Electricity	8.11 Dangers of Electricity and Precautionary Measures	25-27	-------
10	Science and Technology	10.9 E.E.G. (Electroencephalography)	55	Q.4 (iv)

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Smart Syllabus / Accelerated Learning Program (ALP)
General Science Grade-10 (Tech) for Academic Session 2026-27 & BISE Exam-2027

Pairing Scheme

Instructions for Preparation of Exam Paper for General Science 10 (Tech)

The paper of General Science-Tech for Grade-10 will consist of 50 marks.
The duration of the paper will be 2 hours.
(Objective Type = 15 minutes + Subjective Type = 1:45 hours)
Objective Type = 10 marks + Subjective Type = 40 marks.
The paper will be made as per the following details:

<table>
<tr><td>Part-I:
Objective</td><td>Q-1: 10 Multiple Choice Questions will be given. MCQs will be developed from the entire content of the textbook from Chapter 7 to 11. The detail is as follows:
<table>
<tr><th>Chapter</th><th>No. of MCQs</th><th>Chapter</th><th>No. of MCQs</th></tr>
<tr><td>7</td><td>2</td><td>8</td><td>2</td></tr>
<tr><td>9</td><td>2</td><td>10</td><td>2</td></tr>
<tr><td>11</td><td>2</td><td colspan="2">---</td></tr>
</table></td><td>(1 × 10) = 10</td></tr>
<tr><td rowspan="4">Part-II:
Subjective</td><td>This section will contain three short questions. These short questions will be given from the content of the textbook. The detail is as follows:</td><td></td></tr>
<tr><td>Q-2: Four short answer questions have to be answered out of six. The detail is as follows:
<table>
<tr><th>Chapter</th><th>No. of SAQs</th><th>Chapter</th><th>No. of SAQs</th></tr>
<tr><td>7</td><td>3</td><td>11</td><td>3</td></tr>
</table></td><td>(2 × 4) = 8</td></tr>
<tr><td>Q-3: Four short questions have to be answered out of six. The detail is as follows:
<table>
<tr><th>Chapter</th><th>No. of SAQs</th></tr>
<tr><td>8</td><td>6</td></tr>
</table></td><td>(2 × 4) = 8</td></tr>
<tr><td>Q-4: Four short questions have to be answered out of six. The detail is as follows:
<table>
<tr><th>Chapter</th><th>No. of SAQs</th><th>Chapter</th><th>No. of SAQs</th></tr>
<tr><td>9</td><td>3</td><td>10</td><td>3</td></tr>
</table></td><td>(2 × 4) = 8</td></tr>
</table>

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Part-III: Subjective	This section will contain three detailed questions carrying 8 marks each and students have to attempt any two questions. The detail is as follows: **Q-5:** One long question will be given from Chapter No. 7. **Q-6:** One long question will be given from Chapter No. 9. **Q-7:** One long question will be given either from Chapter No. 8 or Chapter No. 10.	(8 × 2) = 16

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MODEL PAPER OF GENERAL SCIENCE 10 (TECH)

Objective Type | معروضی حصہ

Time allowed: 15 Minutes **Max. Marks: 10**

Note: Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle with marker or pen ink in the answer-book. Cutting or filling two or more circles will result in zero mark in that question.

نوٹ: ہر سوال کے چار ممکنہ جوابات A, B, C اور D دیے گئے ہیں۔ جو جواب آپ کے خیال میں درست ہے، جوابی کاپی میں اُس کے سامنے والے دائرے کو مار کر یا قلم کی سیاہی سے بھر دیجیے۔ ایک سے زیادہ دائروں کو پُر کرنے یا کاٹ کر پُر کرنے کی صورت میں اس سوال کے نمبر صفر ہوں گے۔

Q. 1: Choose the correct option. (1 × 10 = 10)

سوال نمبر 1: درست جواب کا انتخاب کریں۔

(i) The unit of work is:

ورک (کام) کا یونٹ ہے:

(a) Watt پانی (b) Second سیکنڈ

(c) Joule جول (d) Meter میٹر

(ii) The country in which vehicles mostly run on alcohol is:

وہ ملک جس میں گاڑیاں زیادہ تر الکوحل پر چلتی ہیں۔

(a) China چین (b) America امریکہ

(c) Japan جاپان (d) Brazil برازیل

(iii) Instructions given electronically to make a computer work are called:

کمپیوٹر کو کام کرنے کے لیے الیکٹرونک طریقے سے دی جانے والی ہدایات کہلاتی ہیں:

(a) Hardware ہارڈویئر (b) Software سافٹ ویئر

(c) Hard Disk ہارڈ ڈسک (d) Compact Disk کمپیکٹ ڈسک

(iv) Light signals are transmitted through:

ٹیلی گرافی کی ترقی یافتہ شکل ہے:

(a) Wires تاریں (b) Optical Fiber آپٹیکل فائبر

(c) Air ہوا (d) Water پانی

(v) The motion of free electrons in a conductor is called:

کنڈکٹر میں آزاد الیکٹرونز کی حرکت کہلاتی ہے:

(a) Circular motion سرکلر موشن (b) Rotatory motion روٹیٹری موشن

(c) Random motion رینڈم موشن (d) Linear motion لینئر موشن

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(vi) Gang capacitor is used in:

گینگ کپیسٹر استعمال ہوتا ہے:

(a) Fans پنکھے (b) Televisions ٹیلی ویژن

(c) Motors موٹرز (d) Tube lights ٹیوب لائٹس

(vii) In which form are signals sent in optical fiber?

آپٹیکل فائبر میں سگنلز کس شکل میں بھیجے جاتے ہیں؟

(a) Radio wave ریڈیو ویو (b) Micro wave مائیکرو ویو

(c) Electric برقی (d) Light روشنی

(viii) The SI unit of resistance is:

ریزسٹنس کا SI یونٹ ہے:

(a) ampere ایمپیئر (b) volt وولٹ

(c) hertz ہرٹز (d) ohm اوہم

(ix) The name of Pakistan's first space rocket is:

پاکستان کے پہلے خلائی راکٹ کا نام ہے:

(a) Badar-I بدر-I (b) Badar-II بدر-II

(c) Rahbar رہبر (d) Sputnik سپتنک

(x) The branch which studies weather for a short period is:

مختصر مدت کے لیے موسم کا مطالعہ کرنے والی شاخ ہے:

(a) Meteorology میٹرولوجی (موسمیات) (b) Climatology کلائمیٹولوجی

(c) Zoology زولوجی (d) Morphology مارفولوجی

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Subjective Type | انشائیہ حصہ

Time allowed: 1:45 Hours **Max. Marks: 40**

Part I | حصہ اول

Q.2: Write short answers to any four (04) questions. **(2 × 4 = 8)**

سوال نمبر2: کوئی سے چار(4) سوالات کے مختصر جوابات لکھیے۔

(i) Define electrical energy and also write its unit.

(i) الیکٹریکل انرجی (برقی توانائی) کی تعریف کیجیے اور اس کا یونٹ بھی لکھیے۔

(ii) How is electricity generated from solid waste?

(ii) سالڈ ویسٹ (ٹھوس فضلہ) سے بجلی کیسے پیدا کی جاتی ہے؟

(iii) What is meant by geothermal power?

(iii) جیو تھرمل پاور سے کیا مراد ہے؟

(iv) What is meant by Hubble Space Telescope?

(iv) ہبل اسپیس ٹیلی سکوپ سے کیا مراد ہے؟

(v) What are the basic objectives of SUPARCO?

(v) سپارکو کے بنیادی مقاصد کیا ہیں؟

(vi) What are the advantages of artificial satellites?

(vi) مصنوعی سیاروں کے کیا فوائد ہیں؟

Q.3: Write short answers to any four (04) questions. **(2 × 4 = 8)**

سوال نمبر3: کوئی سے چار (4) سوالات کے مختصر جوابات لکھیے۔

(i) What is meant by fuse blowing?

(i) فیوز اُڑنے سے کیا مراد ہے؟

(ii) What is the use of AVO meter?

(ii) اے وی او میٹر کس کام آتا ہے؟

(iii) What are resistors? Give an example.

(iii) رزسٹرز کیا ہوتے ہیں؟ ایک مثال دیجیے۔

(iv) Define potential difference.

(iv) پوٹینشل ڈیفرنس کی تعریف کیجیے۔

(v) What is meant by charging of a capacitor?

(v) کپیسٹر کی چارجنگ سے کیا مراد ہے؟

(vi) What is a transformer?

(vi) ٹرانسفارمر کیا ہے؟

Q.4: Write short answers to any four (04) questions. **(2 × 4 = 8)**

سوال نمبر4: کوئی سے چار (4) سوالات کے مختصر جوابات لکھیے۔

(i) What are the input devices of a computer?

(i) کمپیوٹر کی اِن پُٹ ڈیوائسز کون سی ہیں؟

(ii) Define communication system.

(ii) کمیونیکیشن سسٹم (مواصلاتی نظام) کی تعریف کیجیے۔

(iii) What do you mean by electronics?

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(iii) الیکٹرونکس سے آپ کیا مراد لیتے ہیں؟

(iv) What are the elements which emit radiations called?

(iv) وہ عناصر جو شعاعیں (ریڈی ایشنز) خارج کرتے ہیں، کیا کہلاتے ہیں؟

(v) How is steel made harder?

(v) اسٹیل کو سخت کیسے بنایا جاتا ہے؟

(vi) What objects are used for laser?

(vi) لیزر کے لیے کون سی اشیا استعمال ہوتی ہیں؟

Part II | حصہ دوم

Note: Attempt any two questions. **(8 × 2 = 16)**

نوٹ: کوئی سے دو (2) سوالات کے جوابات لکھیے۔

Q.5: (a) What is thermal pollution? How is it produced? (4)

سوال نمبر 5: (الف) حرارتی آلودگی کیا ہے؟ یہ کیسے پیدا ہوتی ہے؟

(b) Define energy. What is the difference between kinetic and potential energy? (4)

(ب) توانائی کی تعریف کیجیے۔ حرکی توانائی اور مخفی توانائی میں کیا فرق ہے؟

Q.6: (a) Write a note on Communication System? (4)

سوال نمبر 6: (الف) مواصلاتی نظام پر ایک نوٹ تحریر کریں۔؟

(b) What are the main parts of a computer and what work do they perform? (4)

(ب) کمپیوٹر کے اہم حصے کون سے ہیں اور وہ کیا کام سرانجام دیتے ہیں؟

Q.7: (a) What is the difference between X-ray and C.T. scan? Which method is better for treatment. (4)

سوال نمبر 7: (الف) ایکس رے اور سی ٹی اسکین میں کیا فرق ہے؟ علاج کے لیے کون سا طریقہ بہتر ہے؟

(b) What are Radio Isotopes? Write down some of their uses? (4)

(ب) ریڈیو آئسوٹوپس کیا ہیں؟ ان کے چند استعمالات لکھیں۔؟

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Revised Smart Syllabus / Accelerated Learning Programme (ALP) Physics (Tech) Grade-10 for Academic Session 2026-27 & BISE Exam-2027

Chapter No.	Chapter Name	Topics	Page No.	Exercise
10	Thermal Physics	10.2: Specific heat capacity • Latent heat of vaporization	6-8 9-10	MCQs: 10.4, 10.5 Short answer questions: 10.4, 10.5 CRQs: 10.1, 10.3 Comprehensive Questions: 10.2 (Latent heat of vaporization is excluded), 10.3 Numerical Problems: 10.4. 10.6
11	Transfer of Thermal Energy	11.3: Heat transfer through radiation	18-21	MCQs: 11.4, 11.5, 11.7 Short answer questions: 11.1, 11.6, 11.7 CRQs: 11.1, 11.4 Comprehensive Questions: 11.2, 11.4
12	Waves	12.4: Seismic waves	32	MCQs: 12.5, 12.6 Short answer questions: 12.3, 12.4 CRQs: 12.1, 12.4 Numerical Problems: 12.4, 12.6
13	Sound	13.4: Musical sounds and noise 13.5: Reflection of sound (echo) Example: 13.2 Example: 13.3 13.7: Acoustic protection of buildings	41 42 42 44-45 45	MCQs: 13.2, 13.5, 13.6 Short answer questions: 13.2, 13.4 CRQs: 13.3, 13.5 Comprehensive Questions: 13.2, 13.4 Numerical Problems: 13.4, 13.5

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14	Light	Activity 14.1: Finding the image position in a plane mirror 14.3: Image formation in a normal eye 14.4: Dispersion of light by prism	50 57-59 59-60	MCQs: 14.4 CRQs: 14.1, 14.2, 14.5 Comprehensive Question: 14.5 Numerical Problems: 14.4, 14.5
15	Electrostatics	15.5: Conduction of electric charges	70-71	MCQs: 15.4 Short answer questions: 15.3, 15.4, 15.6 CRQs: 15.1, 15.4, 15.5 Numerical Problems: 15.3, 15.4
16	Electricity	16.4: Combination of resistances Example: 16.2 16.6: Potential divider circuit 16.8: Household circuits and safety measures	83-85 84-85 85-86 87-89	MCQs: 16.4, 16.6 Short answer question: 16.5 CRQs: 16.2, 16.3, 16.4, 16.5 Comprehensive Question: 16.4 Numerical Problems: 16.2, 16.3
17	Electromagnetism	17.3: Turning effect on a current-carrying coil in magnetic field 17.4: Electric motor	97 98	MCQs: 17.2, 17.3, 17.4 Short answer questions: 17.3, 17.4, 17.5 CRQs: 17.2, 17.3 Comprehensive Questions: 17.3, 17.4
18	Electromagnetic Induction	18.2: A.C. generator 18.3: Transformer Example: 18.2	105-107 107-108 108-109	MCQs: 18.3, 18.4, 18.5 Short answer questions: 18.3, 18.4, 18.5, 18.6 CRQs: 18.2, 18.3, 18.4 Comprehensive Questions: 18.2, 18.3 Numerical Problems: 18.3, 18.4, 18.5

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19	Nuclear Physics	19.4: Radioactive Decay Example: 19.2 19.6: Interconversion of matter and energy Example 19.3: 19.9: Radiation exposure	116-117 117 119 119-120 125-127	MCQs: 19.3, 19.5, 19.6, 19.7 Short answer questions: 19.4, 19.5, 19.8 CRQs: 19.3, 19.5 Comprehensive Questions: 19.2, 19.3 Numerical Problems: 19.4, 19.5

LIST OF EXCLUDED PHYSICS (TECH) GRADE-9 PRACTICALS FOR ACADEMIC SESSION 2026-2027

- Measure the area of cross-section and volume of a solid cylinder by measuring its length and diameter with Vernier Callipers.
- Measure the diameter of a metal ball bearing or a wire by using a micrometer screw gauge.
- Determine the resultant of two forces graphically by using a horizontal force table.
- Find the density of a solid by using a measuring cylinder.

LIST OF EXCLUDED PHYSICS (TECH) GRADE-10 PRACTICALS FOR ACADEMIC SESSION 2026-2027

- Find the specific heat of a given solid by the method of mixture using polystyrene cup.
- Find the refractive index of water by using a concave mirror
- Study resistors in a series circuit.
- Study resistors in a parallel circuit.

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Pairing Scheme / Instructions for Preparation of BISE Examination Paper

The paper of Physics (Tech) for class-10 will consist of 40 marks. Timing of the paper will be two (02) hours (Objective 15 minutes and Subjective 1: 45 hours). The paper will be made as per following details:

Objective	**Q-1:** 10 Multiple Choice Questions (MCQs) will be developed from the entire content of the textbook. One MCQ will be asked from each chapter.	(1×10) = 10
Subjective Part-I	This section will contain two short answer questions. Each short answer question will be asked from the content of the textbook. The detail is as follows: **Q-2:** 4 short answer questions have to be answered out of 6. The detail is as follows: • One short answer question will be asked from chapters; 10, 11, 12 and 13 each, and two short answer questions will be asked from chapter 14.	(2 × 4) = 8
	Q-3: 4 short answer questions have to be answered out of 6. The detail is as follows: • One short answer question will be asked from chapters; 15, 16, 17 and 18 each, and two short answer questions will be asked from chapter 19.	(2 × 4) = 8
Part-II	This section will contain three detailed questions and students have to attempt any two (02) questions carrying 7 marks each. Each detailed question will be asked form the content of the textbook. The detail is as follows: **Q-4:** One detailed question will be asked from chapters; 10, 11, 12 and 13. **Q-5:** One detailed question will be asked from chapters; 14, 15 and 16. **Q-6:** One detailed question will be asked from chapters; 17, 18 and 19.	(7 × 2) = 14

Note:	In this section, each question will consist of two parts. Part (a) may be asked form any chapter. Part (b) will be asked from any different chapter (not from the same chapter as Part (a). Part (a) will carry 3 marks, while Part (b) will carry 4 marks.

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MODEL PAPER PHYSICS (TECH) FOR GRADE-10

Max. Marks: 10 **Objective Type** **کل نمبر:10**

Time allowed: 15 Min. **وقت:15منٹ**

نوٹ:ہر سوال کے چار ممکنہ جوابات A، B، C اور D دیے گئے ہیں۔ جو انتخاب آپ کے خیال میں درست ہے،اس سوال کے سامنے والے دائرے کو مار کر یا پین کی سیاہی سے بھریں۔ دو یا دو سے زیادہ دائروں کو کاٹنے یا بھرنے کی صورت میں جواب غلط تصوّر ہو گا۔

Note: Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with marker or pen ink in the answer-book. Cutting or filling two or more circles will result in zero mark in that question.

1- درست جواب کا انتخاب کریں۔

1. Select the correct answer. **(1 × 10 = 10)**

(i) برتن کے اندر گیس کا پریشر بڑھ جاتا ہے اگر گیس کے پارٹیکلز:

(i) Gas pressure inside a container increases if gas particles:

(a) collide less frequently with walls of the container برتن کی دیواروں سے کم ٹکراتے ہیں

(b) lose kinetic energy کائی نیٹک انرجی کھو دیتے ہیں

(c) strike the container walls more frequently and forcefully برتن کی دیواروں سے زیادہ بار اور زور سے ٹکراتے ہیں

(d) decrease in number تعداد میں کم ہو جاتے ہیں

(ii) انتقالِ حرارت کے کون سے طریقے میں میڈیم کی ضرورت نہیں ہوتی؟

(ii) Which method of heat transfer does not require a medium?

(a) Conduction کنڈکشن (b) Convection کنویکشن

(c) None of these ان میں سے کوئی نہیں (d) Both (b) and (c) دونوں (b) اور (c)

(iii) ٹرانسورس ویو کے نچلے ترین مقام کو کیا کہتے ہیں؟

(iii) Which part of a transverse wave is the lowest point?

(a) Crest کرسٹ (b) Trough ٹرف (c) Compression کمپریشن (d) Rarefaction ریئر فیکشن

(iv) لونگیٹیوڈنل ویو کی مثال ہے:

(iv) An example of a longitudinal wave is:

(a) Light wave روشنی کی ویو (b) Water wave پانی کی ویو

(c) Sound wave ساؤنڈ ویو (d) Radiowave ریڈیو ویو

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(v) روشنی کی ایک رے پانی سے ہوا میں داخل ہوتے ہوئے جھک جاتی ہے:

(v) A ray of light travelling from water to air bends:

(a) Towards the normal نارمل کی طرف (b) Away from the normal نارمل سے پرے

(c) At 90° to the normal نارمل پر90° پر (d) Parallel to the normal نارمل کے متوازی

(vi) جب دو مخالف چارجز کو ایک دوسرے کے قریب لایا جاتا ہے تو کیا ہوتا ہے؟

(vi) What happens when two unlike charges are brought close to each other?

(a) They attract وہ ایک دوسرے کو کشش کرتے ہیں (b) They repel وہ ایک دوسرے کو دفع کرتے ہیں

(c) They neutralize each other وہ ایک دوسرے کے اثر کو زائل کر دیتے ہیں (d) Nothing happens کچھ بھی نہیں ہوتا

(vii) الیکٹرو موٹیو فورس برابر ہے:

(vii) Electromotive force is equal to:

(a) $Q = W/E$ (b) $Q = E/W$ (c) $E = W/Q$ (d) $E = Q/W$

(viii) ایک ٹیسلا(T) برابر ہے:

(viii) One tesla (T) is equal to:

(a) $1T = 1N\ A\ m^{-1}$ (b) $1T = 1N\ A^{-1}\ m^{-1}$ (c) $1T = 1N\ A\ m$ (d) $1T = 1N^{-1}\ A^{-1}\ m$

(ix) اگر کسی کوائل میں میگنیٹک فیلڈ میں تبدیلی کی سپیڈ بڑھا دی جائے تو انڈیوسڈ ای ایم ایف:

(ix) What happens to the induced e.m.f. in a coil if the rate of change of the magnetic field increases?

(a) Decreases کم ہو جائے گی (b) Remains the same وہی رہے گی

(c) Increases بڑھ جائے گی (d) Becomes zero صفر ہو جائے گی

(x) کون سی ریڈی ایشن پوزیٹیو چارج رکھتی ہے اور دو پروٹون اور دو نیوٹران پر مشتمل ہوتی ہے؟

(x) Which type of radiation in positively charged and consists of two protons and two neutrons?

(a) Alpha الفا (b) Beta بیٹا

(c) Gamma گیما (d) Neutron emission نیوٹران ایمشن

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Subjective Type
(Part-I)

Max. Marks: 30 **کل نمبر:30**

Time allowed: 1.45 Hours **وقت:1:45 گھنٹے**

2. کوئی سے چار(04)سوالات کے مختصر جوابات لکھیے۔

2. Write short answers to any four (04) questions: **(2 × 4 = 8)**

(i) مختلف میٹیریلز حرارتی پھیلاؤ کے مختلف رویے کیوں دکھاتے ہیں؟

(i) How do different materials exhibit varying thermal expansion behaviours?

(ii) کنویکشن کے چند اطلاقات کے نام لکھیں۔

(ii) Enlist some applications of convection.

(iii) ویو فرنٹ سے کیا مراد ہے؟

(iii) Wat is meant by wavefront?

(iv) ساؤنڈ کی لاؤڈنیس پر کون سے عوامل اثر انداز ہوتے ہیں؟

(iv) What factors influence the loudness of sound?

(v) ٹوٹل انٹرنل ریفلیکشن کی تعریف کریں۔اس کے لیے کن شرائط کا ہونا ضروری ہے؟

(v) Define total internal reflection. What conditions are required for it to occur?

(vi) کریٹیکل اینگل کی تعریف کریں۔خلاء کے لیے کریٹیکل اینگل کی قیمت کیا ہے؟

(vi) Define critical angle. What is the value of critical angle for vacuum?

3. کوئی سے چار(04)سوالات کے مختصر جوابات لکھیے:

3. Write short answers to any four (04) questions: **(2 × 4 = 8)**

(i) الیکٹرک فیلڈ سے کیا مراد ہے؟

(i) What is meant by electric field?

(ii) الیکٹرک پاور کی تعریف کریں اور اس کا فارمولا لکھیں۔

(ii) Define electric power and write its formula.

(iii) اگر تار میں بہنے والے کرنٹ کی مقدار بڑھادی جائے تو میگنیٹک فیلڈ پر کیا اثر پڑتا ہے؟

(iii) What happens to the magnetic field if the magnitude of the current in a wire is increased?

(iv) میگنیٹک فلکس کی تعریف کریں۔

(iv) Define magnetic flux.

(v) اٹامک نیوکلیس کی تعریف کریں۔اس کی دو اہم خصوصیات کون سی ہیں؟

(v) Define the atomic nucleus. What are its two main characteristics?

(vi) الفا ریڈی ایشن بیٹا ریڈی ایشن سے کس طرح مختلف ہے؟

(vi) How does alpha radiation differ from beta radiation?

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(Part-II)

4. کوئی سے دو(02)سوالات کے تفصیلاً جوابات لکھیے:

4. Write detailed answers of any two (02) questions. (7 × 2 = 14)

(الف) زمین کے ٹمپریچر کو برقرار رکھنے میں گرین ہاؤس ایفیکٹ کا کیا کردار ہے؟انسانی سرگرمیوں سے بڑھتے ہوئے گرین ہاؤس ایفیکٹ کے ممکنہ نتائج بیان کریں۔ (3)

(a) Discuss the role of the greenhouse effect in regulating Earth's temperature. What are the potential consequences of an enhanced greenhouse effect due to human activities? **(3)**

(ب) ایک کار کا ہارن 0.5m کی ویولینگتھ کے ساتھ ساؤنڈ پیدا کرتا ہے۔اگر ہوا میں ساؤنڈ کی سپیڈ $340\ ms^{-1}$ ہو تو کار کے ہارن کی فریکوینسی کیا ہو گی؟ (4)

(b) A car horn emits a sound with a wavelength of 0.5 m. If the speed of the sound in air is 340 m s^{-1}, calculate the frequency of the sound produced by the car's horn. **(4)**

5. (الف) ٹوٹل انٹرنل ریفلیکشن کے مظہر کی وضاحت کریں۔اس کے دو عملی استعمالات بھی بتائیں۔ (3)

5. (a) Explain the phenomenon of total internal reflection. Also give its two practical applications. **(3)**

(ب) اپنے کمرے میں 100W کا سیلینگ فین روزانہ 10 گھنٹے چلانے کی لاگت معلوم کریں۔فرض کریں کہ ایک یونٹ کی قیمت 25روپے ہے۔ (4)

(b) Calculate the one-month cost of using a 100 W ceiling fan for 10 hours daily in your room. Assume that the price of one unit is Rs. 25. **(4)**

6. (الف) وضاحت کریں کہ کاربن ڈیٹنگ کس طرح کاربن-14 کا استعمال کرتے ہوئے نوادرات کی عمر کا اندازہ لگاتا ہے۔اس کی قابلِ اعتمادیت پر بحث کریں، خصوصاً کاربن-14 کی ہاف لائف کے اثر کو مدِ نظر رکھتے ہوئے۔ (3)

6. (a) Explain how carbon dating uses carbon-14 to estimate the age of artifacts. Discuss its reliability, considering the influence of carbon-14's half-life. **(3)**

(ب) 0.2m ریڈیس اور $5\ \Omega$ رزسٹنس والا ایک گول لوپ، 0.5T کے میگنیٹک فیلڈ کے عمودار رکھا گیا ہے۔اگر فیلڈ 0.1s میں صفر ہو جائے تو معلوم کریں:(الف)انڈیوسڈ ای ایم ایف (ب)انڈیوسڈ کرنٹ (4)

(b) A circular loop of radius 0.2 m and resistance 5 Ω is placed perpendicular to a magnetic field of 0.5 T. If the field drops to zero in 0.1 s, calculate:

(i) the induced emf

(ii) the induced current **(4)**

PECTAA

PAIRING SCHEME PHYSICS PRACTICALS (TECH) FOR GRADE 9-10

Max. Marks: 20 **Time: 02 hours**

Q. 1: Two practicals will be given from the 9th part. The candidate has to perform one practical out of them. Each practical will carry 8 marks, distributed as follows:

- The examiner in the laboratory will award you marks out of 4.
- The examiner in the BISE Marking Centre will award you marks out of 4.

Q. 2: Two practicals will be given from the 10th part. The candidate has to perform one practical out of them. Each practical will carry 8 marks, distributed as follows:

- The examiner in the laboratory will award you marks out of 4.
- The examiner in the BISE Marking Centre will award you marks out of 4.

3: Notebook (02)

4: Viva Voce (02)

PECTAA

MODEL PAPER PHYSICS PRACTICALS (TECH) FOR GRADE 9-10

4, 4 **Q.1:** Find the acceleration of a ball rolling down on an inclined angle iron by drawing a graph between $2S$ and t^2.

ایک انکلائنڈ اینگل آئرن پر لڑھکتے بال کے لیے $2S$ اور t^2 کے مابین گراف بنائیں اور پھر بال کا ایکسلریشن معلوم کریں۔

OR

Trace the magnetic field due to a bar magnet by using a compass needle.

کمپاس نیڈل کی مدد سے ایک بار میگنیٹ کے میگنیٹک فیلڈ کا نقشہ کھینچیں۔

4, 4 **Q.2:** Verify the laws of refraction by using a glass slab.

گلاس سلیب استعمال کر کے ریفریکشن کے قوانین کی تصدیق کریں۔

OR

Find the resistance of a galvanometer by half deflection method.

ہاف ڈفلیکشن کے طریقے سے گیلوانومیٹر کی رزسٹنس معلوم کریں۔

2 **3:** Notebook نوٹ بک

2 **4:** Viva voce زبانی سوالات

Revised Smart Syllabus/Accelerated Learning Programme (ALP) Chemistry (Tech) Grade-10 for Academic Session 2026-27 & BISE Exam-2027

Note: All types of questions for BISE Examination paper will be prepared from the entire content of the textbook other than those topics and questions which have been excluded / deleted in the Smart Syllabus (ALP) for Chemistry-10 Tech) (Session 2026-27).

Chapter No.	Chapter Name	Deleted Topics and Exercise Questions	Page No.
13	States of Matter and Phase Changes	Nothing is deleted.	---
14	Stoichiometry	**14.5** Limiting Reactant **14.6** Yield Multiple Choice Questions (MCQs): 6,7 Short Answers Questions (SAQs): 14.5 Constructed Response Questions (CRQs): 14.1 & 14.3 Descriptive Questions (DQs): Nil Quick Check: 14.7, 14.8 Numerical: 14.6 Examples: 14.15, 14.16 & 14.17	(P 20-21) (P 21-23)

PECTAA

Chapter No.	Chapter Name	Deleted Topics and Exercise Questions	Page No.
15	Electrochemistry	**15.4** Oxidation-reduction Reaction	(P 29-31)
		15.7 Electrolysis of dilute and concentrated Aqueous solutions of metal halides	(P 33-35)
		15.8 Electrolysis of concentrated Aqueous solution of metal halide	(P 36)
		15.9 Electrolysis of Molten lead (II) Chloride.	(P-36)
		15.10 Electrolysis of dilute solution of Sulphuric Acid using inert electrodes (Carbon or Pt)	(P 37)
		15.11 Electrolysis of dilute Aqueous solution of Copper Sulphate using inert electrodes or Copper Electrodes	(P 37-38)
		15.12 Corrosion	(P 38-39)
		MCQs: 2, 3, 4, & 6	
		Short Answers Questions (SAQs): Nil	
		CRQs: 15.4	
		Descriptive Questions (DQs): 15.4 & 15.6	
		Quick Check: 15.3 & 15.4	
16	Reaction Kinetics	**16.2:** Change in mass during a chemical Reaction.	(P 46-47)
		16.3: Change in Temperature during a chemical Reaction	(P 47)
		16.4: Factors affecting the Rates of Reactions	(P 47-50)
		Multiple Choice Questions (MCQs): 3,5	
		Short Answers Questions (SAQs): 16.2, 16.5 & 16.7,	
		Constructed Response Questions (CRQs): 16.2, 16.4, 16.5 & 16.6	
		Descriptive Questions (DQs): 16.1, 16.3, 16.4	
		Quick Check: 16.2	

PCTAA

Chapter No.	Chapter Name	Deleted Topics and Exercise Questions	Page No.
17	Salts	**17.4:** Soluble and insoluble salts Multiple Choice Questions (MCQs):4 Short Answers Questions (SAQs): 17.2, 17.3 & 17.4 Constructed Response Questions (CRQs): Nil Descriptive Questions (DQs): 17.2 Quick Check: Nil Activity: Nil	(P-55)
18`	Nitrogen and Sulphur	**18.2:** Sulphuric Acid **18.5** Role of oxides of nitrogen in spreading air pollutants Multiple Choice Questions (MCQs): 2, 5, 7 Short Answers Questions (SAQs): 18.3 &18.5 Constructed Response Questions (CRQs): 18.2, 18.3 & 18.4 Descriptive Questions (DQs): 18.2 &18.4 Quick Check: 18.2, 18.5	(P 59-61) (P 65-66)
19	Water	**19.5** Treatment of domestic Water Supply **19.7:** Element essential for Plant growth Multiple Choice Questions (MCQs): 2 Short Answers Questions (SAQs): 19.5 & 19. 6 Constructed Response Questions (CRQs): 19.2 Descriptive Questions (DQs): 19.1 Quick Check: Nil	(P 73-74) (P 76)

PCTA

Chapter No.	Chapter Name	Deleted Topics and Exercise Questions	Page No.
20	Organic Chemistry	**20.4:** Isomerism **20.5:** Functional Group **20.6:** (4. Alcohol), (5. Carboxylic Acid), (6. Esters) Multiple Choice Questions (MCQs): IV, Vi, VII & VIII Short Answers Questions (SAQs): 20.4, 20.5 & 20.7 Constructed Response Questions (CRQs): 20.3, 20.4 & 20.5 Descriptive Questions (DQs): 20.4 & 20.5 Quick Check: 20.4 & 20.6 (i, ii, iv, vii & viii)	(P 86) (P 87-88) (P 92-93)
21	Hydrocarbons	**21.4:** Refining of Petroleum Multiple Choice Questions (MCQs): Nil Short Answers Questions (SAQs): Nil Constructed Response Questions (CRQs): Nil Descriptive Questions (DQs): Nil Quick Check: Nil	(P 101-102)
22	Monohydroxy alkane & alcohol	**22.3** Role of Ethanol in industries **22.4:** Impact of alcohols on daily life Multiple Choice Questions (MCQs): 4, 5, 6 Short Answers Questions (SAQs): 22.1 & 22.2 Constructed Response Questions (CRQs): Nil Descriptive Questions (DQs): 22.3 Quick Check: Nil	(P 107-108) (P 108)

PCTA

Chapter No.	Chapter Name	Deleted Topics and Exercise Questions	Page No.
23	Carboxylic Acids	**23.4:** Industrial Applications of carboxylic Acid and esters **23.5:** Carboxylic Acid and esters in daily life Multiple Choice Questions (MCQs): 4, 5, 8, & 9 Short Answers Questions (SAQs): 23.4, 23.5, 23.6 & 23. 7 Constructed Response Questions (CRQs): 23.3 & 23.4 Descriptive Questions (DQs): 23.2, 23.3 & 23.5 Quick Check: 23.3	(P 112-113) (P 114-115)
24	Biochemistry	**24.5:** Vitamins Multiple Choice Questions (MCQs): 5 Short Answers Questions (SAQs): 24.3, 24.6 Constructed Response Questions (CRQs): 24.4 Descriptive Questions (DQs): Nil Quick Check: 24.6	(P 124)
25	Polymers	**25.3:** Plastics **25.4:** Adverse effect of Plastics Multiple Choice Questions (MCQs): 4 & 5 Short Answers Questions (SAQs): 25.3 Constructed Response Questions (CRQs): 25.1 & 25.2 Descriptive Questions (DQs): 25.3 Quick Check: Nil	(P 131) (P 131-132)

PCTA

Pairing Scheme / Instructions for Preparation of BISE Examination 2027 Paper Chemistry (Tech)-10

Instructions for Preparation of Exam Paper of Chemistry (Tech) for Grade-10

The Chemistry (Tech) paper for class 10 will consist of 40 marks. Timing of the paper will be two hours. The paper will be made as per following details:

<table>
<tr><td>Objective:</td><td>Q-1: 10 Multiple Choice Questions (MCQs) will be developed from the entire content of the textbook. One Multiple-Choice Question (MCQ) will be given from each Chapter i.e. Chapter 13 to 22.</td><td>1 × 10 = 10</td></tr>
<tr><td rowspan="2">Subjective:
Part-I</td><td>Q-2: 4 short answer questions have to be answered out of 06. Each short answer question will be asked from the content of the textbook. The detail is as follows:
<table>
<tr><td>Chapter</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td></tr>
<tr><td>No. of Short Questions</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td></tr>
</table></td><td>2 × 4 = 08</td></tr>
<tr><td>Q-3: 4 short answer questions have to be answered out of 06. Each short answer question will be asked from the content of the textbook. The detail is as follows:
<table>
<tr><td>Chapter</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td></tr>
<tr><td>No. of Short Questions</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td></tr>
</table></td><td>2 × 4 = 08</td></tr>
<tr><td>Subjective:
Part-II:</td><td rowspan="2">This section will contain three detailed questions bifurcated in two-part a & b (carrying 4 & 3 marks each) and students have to attempt 2 questions. Each detailed question will be asked form the content of the textbook. The detail is as follows:
Q-4:
<table>
<tr><td>Chapter</td><td>13</td><td>15</td></tr>
<tr><td>Part</td><td>a</td><td>b</td></tr>
</table>
Q-5:
<table>
<tr><td>Chapter</td><td>18</td><td>19</td></tr>
<tr><td>Part</td><td>a</td><td>b</td></tr>
</table>
Q-6:
<table>
<tr><td>Chapter</td><td>21</td><td>24</td></tr>
<tr><td>Part</td><td>a</td><td>b</td></tr>
</table>
Note: This Pairing Scheme is the same as given in Chemistry (Tech) Grade-10 textbook.</td><td>7 × 2 = 14</td></tr>
</table>

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MODEL PAPER OF CHEMISTRY FOR GRADE-10

Objective Type

Max. Marks: 10 **Time allowed: 15 Mins.**

Note: Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle with marker or pen ink in the answer-book. Cutting or filling two or more circles will result in zero mark in that question.

Q. 1. Select the correct answer. **(1 × 10 = 10)**

(i) درج ذیل میں سے کون سا بیان ایویپوریشن کو درست بیان کرتا ہے؟

(i) Which of the following statements correctly describe evaporation correctly?

(a) Evaporation occurs throughout the liquid.
تبخیر مائع کی پوری مقدار میں ہوتی ہے۔

Evaporation occurs at a specific temperature.
تبخیر ایک مخصوص درجہ حرارت پر ہوتی ہے۔

(c) Evaporation produces cooling.
تبخیر سے ٹھنڈک پیدا ہوتی ہے۔

Evaporation requires an external energy source.
تبخیر کے لیے بیرونی توانائی کے ذریعے کی ضرورت ہوتی ہے۔

(ii) درج ذیل میں سے مرکبات کے کس جوڑے کا تجرباتی فارمولا ایک جیسا ہے؟

(ii) Which of the following pairs of compounds have the SAME empirical formula?

(a) Water (H_2O) and Hydrogen peroxide (H_2O_2)
پانی (H_2O) اور ہائیڈروجن پر آکسائیڈ (H_2O_2)

(b) Acetylene (C_2H_2) and Benzene (C_6H_6)
ایسیٹیلین (C_2H_2) اور بینزین (C_6H_6)

(c) Glucose ($C_6H_{12}O_6$) and Water (H_2O)
گلوکوز ($C_6H_{12}O_6$) اور پانی (H_2O)

(d) Benzene (C_6H_6) and Glucose ($C_6H_{12}O_6$)
بینزین (C_6H_6) اور گلوکوز ($C_6H_{12}O_6$)

(iii) K_2MnO_4 میں مینگنیز (Mn) کا آکسیڈیشن نمبر کیا ہے؟

(iii) What is the oxidation number of Mn in $KMnO_4$

(a) +7 (b) +6

(c) +5 (d) -6

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(iv) کولیژن تھیوری کے نظریے کے مطابق، درج ذیل میں سے کون سا عمل کیمیائی تعامل کی رفتار میں اضافہ کرے گا؟

(iv) According to collision theory, which of the following will increase the rate of a chemical reaction?

(a) Decreasing the concentration of reactants
ری ایکٹنٹس کا ارتکاز کم کرنا

(b) Decreasing the temperature
درجہ حرارت کم کرنا

(c) Increasing the number of particles per unit volume,
فی یونٹ والیوم ذرات کی تعداد بڑھانا

(d) Decreasing the number of collisions
کامیاب کولیژنز کی تعداد کم کرنا

(v) آئنک مرکبات بجلی کب گزارتے ہیں؟

(v) Ionic compounds conduct electricity when they are:

(a) In solid state only
صرف ٹھوس حالت میں

(b) In molten state or dissolved in water
پگھلی ہوئی حالت میں یا پانی میں حل ہونے پر

(c) In solid state and molten state
ٹھوس اور پگھلی ہوئی دونوں حالتوں میں

(d) Never conduct electricity
کبھی بھی بجلی نہیں گزارتے

(vi) امونیا بنیادی طور پر کس چیز کی تیاری کے لیے استعمال ہوتی ہے؟

(vi) Ammonia is mainly used for the production of:

(a) Plastics only
صرف پلاسٹک

(b) Fertilizers like urea
یوریا جیسی کھادیں

(c) Petrol and diesel
پیٹرول اور ڈیزل

(d) Soap only
صرف صابن

(vii) ڈسٹلڈ واٹر کی pH ہے:

(vii) The pH of distilled water is:

(a) 6.5

(b) 8.5

(c) 7

(d) 7.5

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(viii) الکین فیملی کا جنرل فارمولا بتائیں:

(viii) Select the general formula of alkene family.

(a) C_nH_{2n+1} (b) C_nH_{2n}

(c) C_nH_{2n-1} (d) C_nH_{2n-2}

(ix) درج ذیل میں سے کون ایڈیشن ری ایکشن دے گا؟

(ix) Which of the following is expected to give addition reactions?

(a) CH_3-CH_3 (b) CH_2=CH_2

(c) CH_4 (d) CH_3-CH_2-CH_3

(x) الکوحل جس کے جلنے سے سب سے زیادہ حرارت خارج ہوتی ہے؟

(x) Alcohol which has the maximum heat of combustion:

(a) $CH_3CH_2CH_2OH$ (b) CH_3CH_2OH

(c) CH_3OH (d) $CH_3CH_2CH_2CH_2OH$

Subjective Type (Part I)

Time allowed: 1:45 Hrs. **Max. Marks: 30**

Q.2: Write short answers to any Four (04) questions: **(2 × 4 = 8)**

(i) کشید شدہ پانی اور نلکے کے پانی میں کیا فرق ہے؟

(i) What is difference between distilled water and tap water?

(ii) مولر والیوم کسے کہتے ہیں؟ کمرۂ درجہ حرارت اور دباؤ (RTP) پر اس کی قدر کیا ہوتی ہے؟

(ii) What is molar volume? What is its value at RTP?

(iii) الیکٹروپلیٹنگ کے بنیادی مقاصد کیا ہیں؟

(iii) What are the main objectives of electroplating?

(iv) کامیاب کولیژنز کسے کہتے ہیں؟ کسی تعامل کی رفتار کن عوامل پر منحصر ہوتی ہے؟

(iv) What are effective collisions? On what factors does the rate of a reaction depend?

(v) سوڈیم کلورائیڈ (NaCl) کی کرسٹل میں آئنوں کی ترتیب کیسی ہوتی ہے؟

(v) What is the arrangement of ions in the crystal lattice of NaCl.

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(vi) امونیا صنعتی پیمانے پر ہیبر کے عمل کے ذریعے تیار کی جاتی ہے۔ اس عمل کی شرائط اور کیمیائی مساوات تحریر کریں۔

(vi) Ammonia is produced industrially by Haber's process. Write its conditions and chemical equation.

Q.3: Write short answers to any Four (04) questions: **(2 × 4 = 8)**

(i) کنڈینسیشن پولیمرز کیا ہیں؟ مثالیں دیں۔

(i) What are condensation polymers? Give examples.

(ii) ایتھائل امین $CH_3CH_2NH_2$ کو آرگینک کمپاؤنڈ کیوں کہتے ہیں؟

(ii) Why ethylamine $CH_3CH_2NH_2$ is called an organic compound.

(iii) ایڈیشن ری ایکشن کی دو مثالیں دیں۔

(iii) Give two examples of addition reactions.

(iv) ایتھین کی ہائڈریشن کرنے کے لیے کون سی شرائط ضروری ہیں؟

(iv) Write the conditions involved in hydration of ethene.

(v) ایتھانوئک ایسڈ (ایسیٹک ایسڈ) کیسے تیار کیا جاتا ہے؟

(v) How is ethanoic acid (acetic acid) prepared?

(vi) پروٹین کی ڈی نیچریشن کی دو مثالیں دیں۔

(vi) Give two examples of denaturation of proteins.

Subjective Type (Part II)

Note: Attempt any two questions. **(7 × 2 = 14)**

(a) کائنیٹک تھیوری کی بنیاد پر بوائل کا قانون اور چارلس کا قانون بیان کریں اور ان کی وضاحت کریں۔ ان کی ریاضیاتی صورتیں بھی تحریر کریں۔

Q5: (a) State and explain Boyle's Law and Charles's Law on the basis of Kinetic Theory. Write their mathematical forms. (4)

(b) الیکٹروپلیٹنگ کی وضاحت مثالوں کے ساتھ کریں۔

(b) Explain electroplating with examples. (3)

PECTAA

(a) صنعتی پیمانے پر امونیا کی تیاری کی وضاحت کریں۔

Q6: (a) Explain the production of ammonia on industrial scale. (4)

(b) قدرتی ذرائع سے حاصل ہونے والے پانی میں کون کون سے مادے موجود ہوتے ہیں؟ ایک مفید مادے اور تین نقصان دہ مادوں کے نام تحریر کریں اور صحت اور پانی کے معیار پر ان کے اثرات بیان کریں۔

(b) What substances are present in water obtained from natural sources? Describe one useful substance and three harmful substances with their effects on health and water quality. (3)

(a) ایتھین کی تیاری کے لیے دو طریقے لکھیں۔

Q7: (a) Describe two methods of preparation of ethene. (4)

(b) ڈی۔این۔اے اور آر۔این۔اے کسے کہتے ہیں؟ بیان کریں کہ یہ ہمارے جسم میں کیا کردار ادا کرتے ہیں۔

(b) What are DNA & RNA? Describe the role played by them in our body. (3)

List of Excluded Practicals of Chemistry (Tech)-9 For Academic Session 2026-2027

- To separate a given mixture by physical methods.
- To prepare 100 cm^3 of 0.1 mol dm^{-3} sodium carbonate (Na_2CO_3) solution.

List of Excluded Practicals of Chemistry (Tech)-10 For Academic Session 2026-2027

- To standardize the given NaOH solution volumetrically.
- To demonstrate the thermal decomposition of sugar.

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PAIRING SCHEME FOR CHEMISTRY(TECH) FOR GRADE 9-10 PRACTICALS

Max. Marks: 20 **Time: 02 hours**

Q. 1: Two practicals will be given from the 9th part. The candidate has to perform one practical out of them. Each practical will carry 8 marks, distributed as follows: **(8)**

- The examiner in the laboratory will award you marks out of 4.
- The examiner in the BISE Marking Centre will award you marks out of 4.

Q. 2: Two practicals will be given from the 10th part. The candidate has to perform one practical out of them. Each practical will carry 8 marks, distributed as follows: **(8)**

- The examiner in the laboratory will award you marks out of 4.
- The examiner in the BISE Marking Centre will award you marks out of 4.

3: Notebook **(2)**

4: Viva Voce **(2)**

MODEL PAPER CHEMISTRY PRACTICALS (TECH) FOR GRADES 9-10

4, 4	**Q. 1:** To demonstrate that miscible liquids dissolve in each other and immiscible liquids do not. قابلِ امتزاج مائعات ایک دوسرے میں حل ہو جاتے ہیں جبکہ نا قابلِ امتزاج مائعات ایک دوسرے میں حل نہیں ہوتے۔ بیان کریں۔ **OR** Determine the Melting Point of Naphthalene. نیفتھلین کا نقطۂ پگھلاؤ معلوم کیجیے۔
4, 4	**Q. 2:** To standardize the given HCl solution volumetrically. دیے گئے HCl محلول کو حجمی طریقے سے معیاری بنائیں۔ **OR** To demonstrate the conductivity of given different solutions. دیے گئے مختلف محلولوں کی برقی موصلیت کا مظاہرہ کریں۔
2, 2	**3:** Notebook نوٹ بک **4:** Viva Voce زبانی سوالات

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Revised Smart Syllabus / Accelerated Learning Programme (ALP) Biology-Tech Grade-10 for Academic Session 2026-27 & BISE Exam-2027

Note: All types of questions for BISE Examination paper will be prepared from the entire content of the textbook other than those topics and questions which have been excluded / deleted in the Smart Syllabus (ALP) for Biology-Tech Grade-10 (Academic Session 2026-27).

Chapter No. / Name	Deleted Topics and Exercise Questions	Page No.
1. Human Digestive System	• 1.1/ Nutrition and its importance	2
2. Human Respiratory System	• Box	16
3. Human Blood Circulatory System	• 3.4/ Arterial and Venous System • Short Question No. 4	26-27 28
4. Human Urinary System	• 4.3/ Role of Kidneys in Osmoregulation	33-34
5. Coordination	• Background Information • Table • Short Question No. 1	37 49 50
6. Reproductive System	Nothing is deleted.	52-57
7. Inheritance	• 7.1/Structure of Chromosomes • MCQ No. 1 • Long Questions No. 1	59-60 66 67
8. Biotechnology	• 8.1/Introduction to Biotechnology • 8.4/ Potential Risks of Biotechnology • MCQ No. 1 • Short Answers No. 1 • Long Questions No. 6	69-70 75 75 76 77

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Pairing Scheme of Biology-Tech Grade-10 for Academic Session 2026-27 & BISE Exam-2027

The paper of Biology-Tech for class 10 will consist of 40 marks. Timing of the paper will be two hours. The paper will be made as per following details:

Part-I: **Q-1:**

Objective: 10 Multiple Choice Questions. The detail is as follows: $1 \times 10 = 10$

Chapter	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
MCQs	1	1	1	2	1	1	1	2

Part-II: **Q-2:**

Subjective: Four (4) short answer questions have to be answered out of 6. The detail is as follows: $2 \times 4 = 8$

Chapter	**1**	**2**	**3**	**5**
No. of Short Questions	1	1	2	2

Q-3:

Four (4) short answer questions have to be answered out of 6. The detail is as follows: $2 \times 4 = 8$

Chapter	**4**	**6**	**7**	**8**
No. of Short Questions	1	1	2	2

Part-III: **Subjective:** This section will contain three (3) questions bifurcated in two-part **a & b** (carrying 4 & 3 marks each) and students have to attempt 2 questions The detail is as follows: $7 \times 2 = 14$

Q-4:

Chapter	**1**	**3**
Part	a	b

Q-5:

Chapter	**6**	**5**
Part	a	b

Q-6:

Chapter	**8**	**7**
Part	a	b

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MODEL PAPER OF BIOLOGY-TECH FOR CLASS-10

Objective Type

Note: Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle with marker or pen ink in the answer-book. Cutting or filling two or more circles will result in zero mark in that question.

1 × 10 = 10

(i) خوراک کی نالی کے فوراً بعد معدے کا حصہ کہلاتا ہے۔

(i) The part of the stomach just after the esophagus is called:

(a) Fundus فنڈس (b) Pyloric end پائلورک اینڈ

(c) Cardiac end کارڈک اینڈ (d) Body باڈی

(ii) ان میں سے کون سا ترتیب اُس راستے کو درست طور پر ظاہر کرتا ہے جس سے ہوا سانس لینے (Inhalation) کے دوران گزرتی ہے؟

(ii) Which of these correctly orders the structures through which air passes during inhalation?

(a) Pharynx → trachea → larynx → bronchi فیرنکس---ٹریکیا----لیرنکس---برونکی

(b) Pharynx → larynx → trachea → bronchi فیرنکس---لیرنکس----ٹریکیا---برونکی

(c) Larynx → pharynx → bronchi → trachea لیرنکس---فیرنکس---برونکی---ٹریکیا

(d) Larynx → pharynx → trachea → bronchi لیرنکس---فیرنکس---ٹریکیا---برونکی

(iii) ٹانگوں سے آکسیجن سے خالی (deoxygenated) خون کے دل تک واپس آنے کا درست راستہ بتائیں:

(iii) Trace the correct pathway for deoxygenated blood from legs back to the heart:

(a) Femoral veins → Inferior vena cava → Right atrium فیمرل وریدیں→انفیریئر وینا کیوا→دایاں ایٹریئم

(b) Femoral arteries → Inferior vena cava → Right atrium فیمرل شریانیں → انفیریئر وینا کیوا → دایاں ایٹریئم

(c) Femoral veins → Superior vena cava → Right atrium فیمرل وریدیں→سپیریئر وینا کیوا→دایاں ایٹریئم

(d) Femoral arteries → Superior vena cava → Right atrium فیمرل شریانیں → سپیریئر وینا کیوا → دایاں ایٹریئم

(iv) یوریٹر گردے سے کس راستے کے ذریعے نکلتا ہے؟

(iv) Ureter leaves the kidney through:

(a) pelvis پیلوِس (b) hilus ہائلس

(c) papillary duct پیپی لیری ڈکٹ (d) collecting duct کلیکٹنگ ڈکٹ

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(v) ٹیوبیولر سیکریشن کس قسم کا عمل ہے؟

(v) Tubular secretion is a/an:

(a) active transport فعال نقل و حمل (b) diffusion پھیلاؤ

(c) osmosis اوسموسس (d) passive transport غیر فعال نقل و حمل

(vi) گلوکاگون کا کام ہے:

(vi) The function of glucagon is to:

(a) accelerates protein synthesis within cells خلیوں کے اندر پروٹین کی ترکیب کو تیز کرنا

(b) stimulates release of glucose from liver جگر سے گلوکوز کے اخراج کو بڑھانا

(c) decrease release of glucose from liver جگر سے گلوکوز کے اخراج کو کم کرنا

(d) slow down glucose formation from lactic acid لیکٹک ایسڈ سے گلوکوز کی تشکیل کو سست کرنا

(vii) عام طور پر فرٹیلائزیشن کہاں ہوتی ہے؟

(vii) Fertilization usually occurs in the:

(a) uterus رحم (b) vagina اندام نہانی

(c) fallopian tube فیلوپین ٹیوب (d) cervix سروکس

(viii) جب دو مختلف الیلز موجود ہوں تو جو الیل ظاہر ہوتی ہے وہ کیا کہلاتی ہے؟

(viii) When two different alleles are present then the allele which appears is called?

(a) dominant ڈومینینٹ (b) recessive ریسیو

(c) homozygous ہوموزائگس (d) heterozygous ہیٹروزائگس

(ix) اگر بیکٹیریا کا جین مکئی میں منتقل کیا جائے تو فائدہ کیا ہو گا؟

(ix) If a gene from bacteria is transferred into corn, the advantage is:

(a) larger corn size مکئی کے سائز میں اضافہ (b) production of natural toxin قدرتی زہر (ٹاکسن) کی پیداوار

(c) more vitamins زیادہ وٹامنز (d) faster growth تیزی سے نشوونما

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(x) ٹاکسن کی پیداوار کے لیے پودے میں جین ٹرانسفر کیا جاتا ہے؟

(x) A gene for Toxin Production is inserted into a plant for:

(a)	Resisting insect Attacks	حشرات کے حملے سے بچنے کے لیے	(b)	Reducing Water need	پانی کی ضرورت کو کم کرنے کے لیے
(c)	Speeding up flowering	پھول کی نشوونما کو تیز کرنے کے لیے	(d)	Increasing Vitamin content	وٹامن کی مقدار بڑھانے کے لیے

Subjective Type (Part I)

Time allowed: 1:45 Hrs. **Max. Marks: 16**

Q. 2: Write short answers to any four (04) questions: **(2 × 4 = 8)**

(i) State two functions of the liver other than digestion.

(i) ہاضمے کے علاوہ جگر کے دو افعال بیان کریں۔

(ii) What is pleura? Write its function.

(ii) پلیورا کیا ہے؟ اس کا فعل لکھیں۔

(iii) Give the names and functions of any two proteins present in blood plasma.

(iii) خون کے پلازما میں موجود کسی دو پروٹینز کے نام اور ان کے افعال لکھیں۔

(iv) What are agranulocytes? Write its types.

(iv) اگرانولوسائٹس کیا ہیں؟ ان کی اقسام لکھیں۔

(v) Compare the functions of thalamus and hypothalamus.

(v) تھیلمس اور ہائپو تھیلمس کے افعال کا تقابل کریں۔

(vi) Name any four hormones secreted by anterior lobe of pituitary gland.

(vi) پیٹیوٹری گلینڈ کے اینٹیریئر لوب سے خارج ہونے والے کسی چار ہارمونز کے نام لکھیں۔

Q. 3: Write short answers to any five (04) questions: **(2 × 4 = 8)**

(i) Differentiate between pressure filtration and tubular secretion.

(i) پریشر فلٹریشن اور ٹیوبیولر سیکریشن میں فرق بیان کریں۔

(ii) Compare primary oocyte and secondary oocyte.

(ii) پرائمری اور سیکنڈری اوسائٹ میں موازنہ کریں۔

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(iii) Differentiate between homozygous and heterozygous?

(iii) ہوموزائگس اور ہیٹروزائگس میں فرق بیان کریں۔

(iv) Why did Mendel choose pea plant as an experimental material? Give two reasons.

(iv) مینڈل نے مٹر کے پودے کو ہی کیوں چنا۔ دو وجوہات بیان کریں۔

(v) Mention the role of bacteria in Genetic Modification.

(v) بیکٹریا کا جینیٹک موڈیفیکشن میں اہمیت بیان کریں۔

(vi) Define gene editing.

(vi) جین ایڈنگ کی تعریف بیان کریں۔

Subjective Type (Part II)

Note: Attempt any two questions.

Q.4. **(a)** Justify the importance of liver and pancreas in digestion. **4**

لیور اور پینکریاض کا ڈائی جیشن میں کردار بیان کریں۔

(b) Compare the structure and function of an artery, a vein and a capillary. **3**

آرٹری وین اور کیپلری کی ساخت اور افعال کا موازنہ کریں۔

Q.5. **(a)** Explain the parts of testis and ovary where gametes are formed. **4**

ٹیسٹیز اور اوریریز کے وہ آرگن بیان کریں جہاں گیمٹس بنتے ہیں۔

(b) What are the differences and similarities among the three types of neurons? **3**

نیورونز کی تین اقسام کے درمیان فرق اور مشابہت بیان کریں۔

Q.6. **(a)** Enlist the steps for transferring a human gene into a bacterial cell. **4**

بیکٹیریل سیل میں انسانی جنوم کی منتقلی کے مراحل لکھیں۔

(b) Describe Mendel Law of segregation. **3**

مینڈل کا لا آف سیگریگیشن بیان کریں۔

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Pairing Scheme for Practical Paper of Biology-Tech Grades 9-10

Question	Detail	Marks
1	Specimens, slides, models or other material labelled A,B and C may be selected from the complete prescribed practical syllabus/book, wherever such specimens are mentioned.	3 + 3
2	(a) Experiments from Grade-9 (b) Experiments from Grade-10	3 + 2 + 2 + 1
3	Notebook	3
4	Viva Voce	3

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Model Paper for Practical of Biology-Tech Grades 9-10

Time Allowed:	2:00 hours	وقت:2:00 گھنٹے
Maximum Marks:	20	کل نمبر:20

1. Identify slide, specimen or model A, B, and C. Give at least one important characteristic and reason of its identification. 3+3

2. Perform an experiment slotted to you by the Examiner. Write steps of procedure, observations and result. Draw diagrams wherever necessary. 3+2+2+1

   (a) Demonstration of the Process of Photosynthesis using an Aquatic Plant, Like Hydrilla.

   (b) Identification of major organs and organ systems in a dissected frog.

3. Notebook 3

4. Viva Voce 3

Revised Smart Syllabus / Accelerated Learning Programme (ALP) of Computer Science & Entrepreneurship (Tech) Grade-10 for Academic Session 2026-27 & BISE Exam-2027

Details of excluded content for Computer Science and Entrepreneurship (Tech) Grade-10 are as under:

NOTE: No question should be included from excluded topics in any section, including: Unit Summary, Content-based questions, Exercises, MCQs, Short questions, and Essay Type (Long) questions.

Unit	Unit Name	Excluded Content
1	**Operating Systems: Structure and Services**	Process Scheduling Concepts (Page No. 7-9) **Exercise:** MCQ (Q. 6) (Page No. 17) Short Questions (Q. 6) (Page No. 18) Long Questions (Q. 5) (Page No. 18)
2	**Introduction to Python Programming**	Nothing is excluded.
3	**Control Structures in Python**	Nothing is excluded.
4	**Data Science**	Analyzing Data (Page No. 57-59) Interpreting Data, Visualizing and Communicating Results (Page No. 59-61) Tools for Data Visualization (Page No. 61-62) **Exercise:** MCQs (Q. 4, 6, 7 and 8) (Page No. 66) Short Questions (Q. 5, 8) (Page No. 67)
5	**Introduction to Artificial Intelligence (AI) and Machine Learning (ML)**	Linear Regression (Page No. 76-77) **Exercise:** Short Question (Q. 8) (Page No. 81)
6	**Digital Entrepreneurship**	Nothing is excluded.

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Pairing Scheme

Instructions for Preparation of Exam Paper of Computer Science & Entrepreneurship (Tech)for Grade-10

ESSENTIAL INSTRUCTIONS FOR PAPER

The Computer Science & Entrepreneurship (Tech) paper for Class 10 will consist of 40 marks. The duration for the Multiple-Choice Questions (MCQs) section will be 15 minutes, while the time allocated for the short and long questions section will be 1 hour and 45 minutes. The paper will be made as per the following details:

Part-I: Objective:	**Q-1:** Ten (10) Multiple-Choice Questions. MCQs will be developed from the entire content of the textbook. • One (1) MCQ will be asked from each chapter No. 1 and 3. • Two (2) MCQs will be asked from each chapter No. 2, 4, 5 and 6.	1× 10 = 10
Part-II: Subjective:	This section will contain three (3) short answer questions. Each short answer question will be asked from the content of the textbook. The detail is as follows:	2 × 4 = 8
	Q-2: Four (4) short questions have to be answered out of 6. The detail is as follows: • One (1) short question should be asked from each Chp. No. 1 & 3. • Four (4) short questions should be asked from Chp. No. 2.	
	Q-3: Four (4) short questions have to be answered out of 6. The detail is as follows: • Three (3) short questions should be asked from each Chp. No. 4. • Two (2) short questions should be asked from Chapter No. 5. • One (1) short question should be asked from Chapter No. 6.	2 × 4 = 8
Part-III: Subjective:	This section will contain three (3) detailed questions and students have to attempt two questions carrying 7 marks each. Each detailed question should be asked from the content of the textbook. The detail is as follows: **Q-5:** One (1) detailed question should be asked from Chapter No. 1 **Q-6:** One (1) detailed question should be asked from Chapter No. 3 **Q-7:** One (1) detailed question should be asked either from Chapter No. 5 or Chapter No. 6	7 × 2 = 14

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Model Paper

Computer Science and Entrepreneurship (Tech) Class 10

OBJECTIVE

Q. No. 1: Choose the correct option. **(1× 10 = 10)**

(i) ملٹی یوزر انوائرنمنٹ **(Environment)** میں آپریٹنگ سسٹم **(OS)** یقین دہانی کرواتا ہے:

(i) In multi-user environments, the OS ensures:

(a) Equal access and data privacy — مساوی رسائی اور ڈیٹا پرائیویسی

(b) All users share the same files privacy — تمام یوزر ایک ہی فائلز استعمال کرتے ہیں۔

(c) Hardware is never used — ہارڈویئر کبھی استعمال نہیں ہوتا

(d) Internet speed is increased — انٹرنیٹ سپیڈ بڑھ جاتی ہے۔

(ii) **print (10 // 3)** کی آؤٹ پٹ کیا ہو گی؟

(ii) What will be the output of: print (10 // 3)?

(a) 3.333 (b) 3 (c) 1 (d) 4

(iii) اِن میں سے کون سا آپریٹر پائتھن **(python)** میں قوت نما کے طور پر استعمال کیا جاتا ہے؟

(iii) Which of the following operators is used for exponentiation in Python?

(a) * (b) ** (c) // (d) #

(iv) پائیتھن **(python)** میں کسی لسٹ کے آخر میں ایک آیٹم شامل کرنے کے لیے کون سا طریقہ استعمال کیا جاتا ہے؟

(iv) Which method is used to add an item at the end of the list in Python?

(a) insert() (b) append() (c) add() (d) extend()

(v) بہت سے طلبا سے رائے حاصل کرنے کے لیے کون سا طریقہ سب سے بہترین ہے؟

(v) Which method is best for collecting opinions from many students?

(a) IoT Devices — IoT آلات

(b) Survey — سروے

(c) Web Scraping — ویب سکریپنگ

(d) Database — ڈیٹا بیس

(vi) اِن میں سے کون سی ڈیٹا سورس **(Data source)** کی ایک مثال ہے؟

(vi) Which one is an example of data source?

(a) Youtube — یوٹیوب

(b) Survey form — سروے فارم

(c) White board — وائٹ بورڈ

(d) Slide show — سلائیڈ شو

(vii) سپروائزڈ لرننگ **(Supervised learning)** میں ڈیٹا ہوتا ہے:

(vii) In supervised learning, the data is:

(a) Unorganized — بے ترتیب

(b) Without any answers — بغیر کسی جواب کے

(c) Labeled with correct answers — درست جوابات کے لیبل کے ساتھ

(d) Only text-based — صرف متن پر مبنی

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(viii) AI سے کیا مراد ہے؟

(viii) What does AI stand for?

(a) Automatic Intelligence — خودکار ذہانت
(b) Artificial Intelligence — مصنوعی ذہانت
(c) Active Interface — ایکٹو انٹرفیس
(d) Applied Information — اپلائیڈ انٹرفیس

(ix) یورپی یونین میں ذاتی ڈیٹا کی حفاظت کے لیے کون سا قانون ہے؟

(ix) Which of the following laws protect personal data in the European Union?

(a) COPPA — کوپا
(b) GDPR — جی ڈی پی آر
(c) DMCA — ڈی سی ایم اے
(d) Cyber Crime Act. — سائبر کرائم ایکٹ

(x) ٹریڈمارک رجسٹر کرنے کے لیے کون سے دستاویزات درکار ہیں؟

(x) Which document is required to register a trademark?

(a) Bank statement — بینک سٹیٹمنٹ
(b) Proof of product purchase — شے کی خریداری کا ثبوت
(c) A copy of the logo and business name — بزنس کے نام اور لوگو کی نقل
(d) Social media profile link — سوشل میڈیا کے پروفائل کا لنک

SUBJECTIVE

سوال نمبر 2: کوئی سے چار (04) سوالات کے مختصر جوابات تحریر کریں۔

Q. No. 2: Write Short answers to any Four (04) questions. (2 × 4 = 8)

i. یوزر اور ہارڈ ویئر کے مابین آپریٹنگ سسٹم (OS) کیسے ٹرانسلیٹر کے طور پر کام کرتا ہے؟

i. How does the OS act as a translator between the user and hardware?

ii. پائتھن ڈویلپمنٹ انوائرنمنٹ (Python development environment) کا سیٹ اپ کرنا کیوں اہم ہے؟

ii. Why is it important to setup Python Development Environment?

iii. پائتھن (Python) میں متغیرات کے نام لکھنے کے کوئی سے دو قوانین تحریر کریں۔

iii. Write down two variable naming rules in Python.

iv. پروگرامنگ میں کمنٹس (comments) کیوں اہم ہیں؟

iv. Why are comments important in programming?

v. پائتھن (Python) میں یوزر سے اِن پٹ کیسے حاصل کی جاتی ہے؟

v. How do you get user input in Python?

vi. **if** سٹیٹمنٹ **if-else** سٹیٹمنٹ سے کیسے مختلف ہے؟

vi. How does the **if** statement differ from the **if-else** statement?

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سوال نمبر 3: کوئی سے چار (04) سوالات کے مختصر جوابات تحریر کریں۔

Q. No. 3: Write Short answers to any Four (04) questions. **(2 × 4 = 8)**

i. حقیقی زندگی میں ڈیٹاسائنس کی دو مثالیں تحریر کریں۔

i. Write down two real world applications of Data Science.

ii. ڈیٹا کو استعمال کرنے سے قبل اس کی توثیق (validate) کرنا کیوں اہم ہے؟

ii. Why is it important to validate data before using it?

iii. ڈیٹا کولیکشن (Collection) کے لیے درست ذرائع منتخب کرنے کی اہمیت تحریر کریں۔

iii. Write the important to choose right source for data collection?

iv. سپروائزڈ لرننگ کس طرح کام کرتی ہے؟

iv. How does supervised learning work?

v. AI کو بڑے اور اچھی کوالٹی کے ڈیٹا کی ضرورت کیوں ہوتی ہے؟

v. Why does AI need large and good-quality data?

vi. پیٹنٹ (Patent) کی تعریف کریں۔

vi. Define Patent.

تفصیلی سوالات کوئی سے دو (02) سوالات حل کریں۔

Long Question Solve any Two Questions. **(7 × 2 = 14)**

سوال نمبر 4: آپریٹنگ سسٹم کا آرکیٹیکچر بیان کریں۔

Q. No. 4: Describe the architecture of an operating system.

سوال نمبر 5: لوپ کا استعمال کرتے ہوئے پائتھن پروگرام تحریر کریں جو کہ 1 سے 10 تک کے جفت اعداد پرنٹ کرے۔

Q. No. 5: Write a Python program using a loop that prints all the even numbers between 1 and 10.

سوال نمبر 6: مسائل کا حل اور ایڈاپٹ بیلیٹی کے پراسس کی وضاحت کریں۔

Q. No. 6: Explain the process of problem solving and adaptability?

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Excluded Practical
for Computer Science & Entrepreneurship (Tech) for Grade-9

Practical No.	Practical Name
1	• Install device drivers and troubleshoot common hardware component issues safely.

Excluded Practicals
for Computer Science and Entrepreneurship (Tech) for Grade-10

Practical No.	Practical Name
20	• Monitor CPU usage in the Task Manager while opening and closing different applications ……
42-43	• Create a bar chart to visualize given data. • Create a line chart to show trends in a given dataset.

PECTAA

PAIRING SCHEME

Instructions for Preparation of Practical Paper of Computer Science and Entrepreneurship (Tech) for Grades 9 & 10

ESSENTIAL INSTRUCTIONS FOR PAPER SETTERS

Total Marks: 20 **Time Allowed: 1:30 hours**

Part 1:	The section will contain two practical-based questions. The detail is as follows:	
	Q-1 (Grade 9 & 10): One (1) Practical has to be performed out of 2. The detail is as follows: • One (1) Practical will be taken from Practical No. 2 to 19. • One (1) Practical will be taken from Practical No. 21-41 and 44-49.	$1 \times 15 = 15$
Part 2:	This section will consist of checking Practical Notebooks and conducting Viva Voce. The detail is given below:	
	Practical Notebook	3
	Viva Voce	2

PECTAA

MODEL PRACTICAL FOR
COMPUTER SCIENCE AND ENTREPRENEURSHIP (TECH) FOR GRADES 9-10

Total Marks: 20 **Time: 1.30 Hours**

Q. 1 Demonstrate how to create strong and unique passwords.

a) Perform above practical on computer. **8 marks**

b) Write down the step-wise procedure on answer book. **7 marks**

OR

Write a python program to print even numbers from 1 to 20.

(a) Execute / Run the program on computer. **8 marks**

(b) Write code on answer book. **7 marks**

2. Practical Notebook **03 marks**

3. Viva Voce **02 marks**

PECTAA

Revised Smart Syllabus / Accelerated Learning Programme (ALP) of Agriculture Sciences Grade-10 for Academic Session 2026-27 & BISE Exam-2027

Chp. No.	Chapter Name	Excluded Topics / Page No.	Exercise Questions
1	Fruits Production	1.5 Status of Pakistani Fruit in International Market (Page 15) 1.6 Factors Affecting the Success of Fruit Production (Page 16-17)	MCQs: 10 Long Question: 3 Inquisitive Question: 2
2	Condiments and Medicinal Plants	2.3 Ecological Zones of Medicinal Plants in Pakistan (Page 22-23) 2.8 Chemical Composition of Some Major Medicinal Plants (Page 29-30) 2.9 Uses of Major and Minor Medicinal Plants (Page 31-33) 2.10 Business Model of Commercial Aloe Vera (Page 33-34)	MCQs: 1, 2, 3, 5, 7, 8, 9 Short Questions: 3, 6 Long Question: 2, 3 Inquisitive Question: 2
3	Seed Production	3.6 Seed Storage (Page 46) 3.7 Seed Certification (Page 46) 3.8 Seed Act (Page 47)	MCQs: 5, 7 Short Questions: 5, 7 Inquisitive Question: 2
4	Grain Storage Management	4.6 Factors Affecting Grain Storage (Page 55-56) 4.7 Abiotic Factors Affecting Grain Storage (Page 56-57) 4.8 Biotic Factors Affecting Grain Storage (Page 57-59) 4.11 Scope of Grain Storage Management (Page 61-62)	MCQs: 6, 10 Short Question: 5 Long Questions: 4, 5 Inquisitive Question: 4

PECTAA

Chp. No.	Chapter Name	Excluded Topics / Page No.	Exercise Questions
5	Crop Nutrition	5.3 Plant Response to Nutrients (Page 68-72)	MCQ: 8 Short Question: 6 Long Questions: 2, 3, 5 Inquisitive Questions: 1, 3, 4
		5.5 Factors Affecting Availability of Nutrients (Page 75-76)	
6	Kitchen Gardening	6.2 Pruning (Page 86)	MCQs: 4, 6, 8, 9
		6.3 Mulching (Page 87)	Short Question: 6 Inquisitive Questions: 2, 3, 4
		6.5 Hydroponics System (Page 87-89)	
7	Farm Mechanization	Structural Diagram of a Rabi Drill (Page 96-97)	MCQs: 3, 7, 8 Short Questions: 4, 6 Long Questions: 3, 4 Inquisitive Questions: 2, 3
		7.3 Post-Harvest Management (Page 103-104)	
		7.4 Imaging Technology and Drones (Page 104-105)	

PECTAA

Pairing Scheme

Instructions for Preparation of Exam Paper of Agriculture Sciences for Class 10

ESSENTIAL INSTRUCTIONS FOR PAPER SETTERS

The paper of Agriculture Sciences for Grade-10 will consist of **40 marks.**
Duration of the paper will be **2 hours.**
(Objective Type = 15 minutes + Subjective Type = **1:45 hours)**
Objective Type = 10 marks + Subjective Type = **30 marks.**

The paper will be made as per following details:

<table>
<tr>
<td>Part-I: Objective</td>
<td>Q-1: 10 Multiple Choice Questions (MCQs) will be developed from the entire content of the textbook.
<table>
<tr><th>Chapter</th><th>No. of MCQs</th><th>Chapter</th><th>No. of MCQs</th></tr>
<tr><td>1</td><td>1</td><td>2</td><td>1</td></tr>
<tr><td>3</td><td>1</td><td>4</td><td>1</td></tr>
<tr><td>5</td><td>2</td><td>6</td><td>2</td></tr>
<tr><td>7</td><td>2</td><td colspan="2">---</td></tr>
</table>
</td>
<td>(1 × 10) = 10</td>
</tr>
<tr>
<td>Part-II: Subjective</td>
<td>This section will contain two (2) short questions. Each short question will be asked from the exercises of the textbook. The detail is as follows:
Q-2: Four (4) short questions have to be answered out of 6. The detail is as follows:
<table>
<tr><th>Chapter</th><th>No. of SAQs</th><th>Chapter</th><th>No. of SAQs</th></tr>
<tr><td>1</td><td>2</td><td>2</td><td>1</td></tr>
<tr><td>3</td><td>1</td><td>4</td><td>2</td></tr>
</table>
</td>
<td>(2 × 4) = 8</td>
</tr>
<tr>
<td></td>
<td>Q-3: Four (4) short questions have to be answered out of 6. The detail is as follows:
<table>
<tr><th>Chapter</th><th>No. of SAQs</th><th>Chapter</th><th>No. of SAQs</th></tr>
<tr><td>5</td><td>1</td><td>7</td><td>2</td></tr>
<tr><td>6</td><td>3</td><td colspan="2">---</td></tr>
</table>
</td>
<td>(2 × 4) = 8</td>
</tr>
</table>

PECTAA

Part-III: Subjective	This section will contain three (3) detailed questions and students have to attempt 2 questions carrying 7 marks each. Each detailed question will be given form the exercises of the textbook. The detail is as follows: **Q-4:** One detailed question will be given either from Unit 1 or 2. **Q-5:** One detailed question will be given either from Unit 3 or Unit 4. **Q-6:** One detailed question will be asked either from Unit 6 or Unit 7.	$(7 \times 2) = 14$

PECTAA

Model Paper

Agriculture Sciences Grade-10

OBJECTIVE

Total Marks: 10 **Time Allowed: 15 Mins**

Q. 1: Choose the correct option. **(1 × 10 = 10)**

i. The scion in grafting refers to

a. The root portion b. The upper shoot portion

c. The soil medium d. The flowering part only

ii. Ginger is propagated commercially through

a. Seeds b. Offsets c. Rhizomes d. Cuttings

iii. Pre- basic seed is also known as

a. Approved seed b. Breeder seed or nucleus seed

c. Certified seed d. Farm saved seed

iv. Which staple crops of Pakistan depend most on efficient storage?

a. Wheat and rice b. Cotton and sugarcane

c. Fruits and vegetables d. Oilseeds and pulses

v. Blossom end rot in tomato is due to deficiency of

a. Zinc b. Calcium c. Boron d. Potassium

vi. The central atom of chlorophyll is

a. Iron b. Magnesium

c. Nitrogen d. Calcium

vii. The correct spacing for tomato plants in kitchen gardening is

a. 30×30cm b. 60×45cm c. 45×45cm d. 90×60cm

viii. Which nutrient primarily promotes vegetative growth in plants?

a. Phosphorus b. Potassium

c. Nitrogen d. Calcium

ix. Which machine is used for drying grains

a. Winnower b. Grain dryer c. Reaper-binder d. Sub-soiler

x. The disc harrow is mainly used for:

a. Deep ploughing b. Clod breaking and soil pulverization

c. Harvesting rice d. Irrigation

PECTAA

Model Paper

Agriculture Sciences Grade-10

SUBJECTIVE

Total Marks: 30 **Time Allowed: 1:45 Hrs.**

Part - II

Q. 2: Write the answers to any four (04) short questions. **(2 × 4 = 8)**

i. Name any two tropical and two temperate fruits.

ii. Define fruit Botanically and Horticulturally.

iii. List three medicinal plants and the parts used from each.

iv. What are the characteristics of good seed?

v. What role does fumigation play in stored grain management?

vi. Name any three modern grain storage methods.

Q. 3: Write the answers to any four (04) short questions. **(2 × 4 = 8)**

i. Name any four synthetic fertilizers.

ii. List four primary tillage implements.

iii. What are the main uses of a laser land leveler?

iv. Name five summer and five winter vegetables suitable for kitchen gardening.

v. List three advantages of using organic manure in soil management.

vi. Give two maturity indices for harvesting root vegetables and fruiting vegetables.

Part - III

Note: Attempt any two (02) long questions.

Q. 4: Explain the effect of Rootstock on the growth, adaptability and yield of fruit plants. **(07)**

Q. 5: Discuss the major quantitative and qualitative losses during grain storage. **(07)**

Q. 6: Explain the layout system, seasonal rotation and container gardening for continuous vegetable supply in limited spaces. **(07)**

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Excluded Practicals of Agriculture Sciences Tech for Grade-10

Practical No.	List of Excluded Practicals
05	Prepare a table of medicinal plants with their uses (e.g., mint, turmeric, ginger)
07	Growing Medicinal Plants from Seeds in pots or Nursery Beds
12	Study and observe different grain storage structures (bins, silos, traditional storage)
14	Detection of Damaged, Diseased and Insect-infested Grains
16	Observe and record Nutrient deficiency symptoms in plants
23	Demonstration of Spraying Operation in Existing Crops
24	Visit to a Progressive Farm and Observation of Mechanized Farming

PECTAA

PAIRING SCHEME

INSTRUCTIONS FOR PREPARATION OF PRACTICAL PAPER OF AGRICULTURE SCIENCES FOR CLASS-10

Max Marks: 35 **Time Duration: 2 Hours**

Attempt any two practicals from the following:

Note: Attempt any one of the following practical.

Q-1: **(12)**

- **1 practical will be given from Practicals No. 1, 2, 3, 4, 6**

OR

- **1 practical will be given from Practicals No. 8, 9, 10, 11**

Q-2: **(12)**

- **1 practical will be given from Practicals No. 13, 15, 17, 18**

OR

- **1 practical will be given from Practicals No. 19, 20, 21, 22**

This section will consist of checking Practical Notebooks and conducting Viva Voce.

The details are as follows:

Q-3: Practical Notebook + Herbarium **3 + 3 = (6)**

Q-4: Viva Voce **(5)**

Practical Model Paper for Agriculture Sciences Class-10

Maximum Marks: 35 **Time Allowed:** 2 Hours

Question No. 1

Note: Attempt any one of the following practical.

1. Identify given common fruit plants through leaves and seeds and complete the given table.
(12)

Sr. No.	Fruit Name	Botanical Name	Leaf Characteristics	Seed Characteristics
1				
2				
3				
4				
5				
6				

OR

Conduct Seed Germination Test by using Germination Tray, which materials are required and how this test is conducted (procedure)?

Note: Attempt any one of the following practical.

2. Determine moisture contents of grains using a simple sun-drying or weighing method. **(12)**

OR

Identify the given farm tools and machinery and complete the following table:

Sr. No.	Tool / Machine	Type	Function	Used for Crop	Remarks
1					
2					
3					
4					

3. Practical Notebook + Herbarium: 3 + 3 = (6)

4. Viva Voce: (5)

PECTAA

Revised Smart Syllabus / Accelerated Learning Programme (ALP) Health Sciences Grade-10 for Academic Session 2026-27 & BISE Exam-2027

Chapter No./ Name	Deleted Topics and Exercise Questions	Page No.
9. Central Nervous System	• Table • Table • Table • Role play • All Group Activities	5 6 8 15 17
10. Musculoskeletal System	• Table 10.2 • Table 10.3 • Role play • MCQ No. 10 • Short Questions No. 9, 10 • All Group Activities	24 27 28 29 30 31
11. Endocrine System	• Table 11.1 • 11.2/ Role of Hormones in Regulating Body Functions • 11.6/ Reproductive Hormone Disorders • Role play • MCQ No. 10 • Short Questions No. 9-10 • Long Question No. 9 • All Group Activities	33 35 41-43 44 45 46 47 47
12. Pediatrics	Nothing is deleted.	48-58
13. First Aid II	Nothing is deleted.	59-68
14. Sterilization	Nothing is deleted.	69-79
15. Nursing and Elderly Care	Nothing is deleted.	80-85
16. Behavioral Science	Whole chapter is deleted.	86-98
17. Essential Life Skills	Whole chapter is deleted.	99-116

PECTAA

Pairing Scheme of Health Sciences Grade-10 for Academic Session 2026-27 & BISE Exam-2027

The paper of Health Sciences for class 10 will consist of 40 marks. Timing of the paper will be two hours. The paper will be made as per following details:

<table>
<tr><td>Part-I:
Objective:</td><td>Q-1: 10 Multiple Choice Questions. The detail is as follows:<table><tr><th>Chapter</th><th>9</th><th>10</th><th>11</th><th>12</th><th>13</th><th>14</th><th>15</th></tr><tr><td>No. of Short Questions</td><td>1</td><td>2</td><td>1</td><td>2</td><td>1</td><td>2</td><td>1</td></tr></table></td><td>1 × 10 = 10</td></tr>
<tr><td rowspan="2">Part-II:
Subjective:</td><td>Q-2: 4 short answer questions have to be answered out of 6. The detail is as follows:<table><tr><th>Chapter</th><th>9</th><th>10</th><th>11</th><th>12</th></tr><tr><td>No. of Short Questions</td><td>1</td><td>2</td><td>1</td><td>2</td></tr></table></td><td>2 × 4 = 8</td></tr>
<tr><td>Q-3: 4 short answer questions have to be answered out of 6. The detail is as follows:<table><tr><th>Chapter</th><th>13</th><th>14</th><th>15</th></tr><tr><td>No. of Short Questions</td><td>2</td><td>2</td><td>2</td></tr></table></td><td>2 × 4 = 8</td></tr>
<tr><td>Part-III:
Subjective:</td><td>This section will contain three (3) questions bifurcated in two-part a & b (carrying 4 & 3 marks each) and students have to attempt 2 questions The detail is as follows:
Q-4:<table><tr><th>Chapter</th><th>13</th><th>12</th></tr><tr><td>Part</td><td>a</td><td>b</td></tr></table>Q-5:<table><tr><th>Chapter</th><th>9</th><th>14</th></tr><tr><td>Part</td><td>a</td><td>b</td></tr></table>Q-6:<table><tr><th>Chapter</th><th>10</th><th>15</th></tr><tr><td>Part</td><td>a</td><td>b</td></tr></table></td><td>7 × 2 = 14</td></tr>
</table>

PECTAA

MODEL PAPER OF HEALTH SCIENCES FOR CLASS-10
Objective Type

Time allowed: 15 Min. **Max. Marks: 10**

Note: Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle with marker or pen ink in the answer-book. Cutting or filling two or more circles will result in zero mark in that question.

1. **Which diagnostic test is most useful for identifying CNS infections?**
   (a) Blood pressure test (b) CSF analysis
   (c) ECG (d) Renal Function test

2. **Which disease is caused by low bone density?**
   (a) Rickets (b) Osteoporosis
   (c) Arthritis (d) Cramps

3. **Which hormone helps prepare the body for stress?**
   (a) Rickets (b) Osteoporosis
   (c) Arthritis (d) Cramps

4. **What does the EPI (Expanded Program on Immunization) focus on?**
   (a) Building hospitals (b) Treating adults
   (c) Providing free medicine (d) Giving vaccines to children

5. **What is the main cause of stunting in children?**
   (a) Too much exercise (b) Chronic malnutrition
   (c) Lack of sleep (d) Exposure to sunlight

6. **What should be done first when someone shows signs of shock?**
   (a) Give them water to drink (b) Call emergency services
   (c) Make them stand up (d) Cover their face

7. **What type of radiation is used for sterilizing medical devices?**
   (a) Gamma rays (b) UV light
   (c) Infrared rays (d) Visible light

8. **Which symptom is most commonly associated with dementia?**
   (a) Frequent urination (b) Joint stiffness
   (c) Memory loss (d) Dizziness

9. **Which physical method uses steam under pressure**
   (a) Dry heat (b) Gamma rays
   (c) Autoclaving (d) UV radiation

10. **Which arthritis is caused by wear and tear of joints**
    (a) Septic arthritis (b) Rheumatoid arthritis
    (c) Osteoarthritis (d) Gout

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Subjective Type (Part I)

Time allowed: 1.45 Hrs. **Max. Marks: 16**

Q. 2: Write short answers to any Four (04) questions. **(2 × 4 = 8)**

i. Differentiate between ischemic and hemorrhagic strokes.
ii. Which diagnostic tool is better for seeing muscles: X-ray or MRI? Explain briefly.
iii. Why are children more likely to develop rickets than adults?
iv. How is blood glucose monitoring useful for a diabetic patient?
v. Why is hand washing important for children's health?
vi. Name diseases prevented by routine childhood vaccination.

Q. 3: Write short answers to any four (04) questions: **(2 × 4 = 8)**

i. List any three essential items found in a First Aid Kit.
ii. What are the signs if someone is choking.
iii. Why is it essential to pre-clean surgical instruments before sterilization?
iv. How does organic matter affect the sterilization process?
v. Define the term "incontinence" and give one cause.
vi. What are the common symptoms of diabetes in older adults.

Subjective Type (Part II)

Note: Attempt any two questions. **(7 × 2 = 14)**

Q. 4: (a) Write a detailed note on the first aid management of poisoning and insect/snake bites.

(b) Explain the proper hand-washing technique and its role in preventing the spread of infection among children.

Q. 5: (a) Define epilepsy discuss its main causes symptoms and management strategies.

(b) Discuss the chemical methods of sterilization.

Q6: (a) Define osteoporosis discuss its causes, symptoms and its prevention.

(b) Explain the role of preventive care in elderly health, including recommended vaccinations and lifestyle changes.

PECTAA

HEALTH SCIENCES GRADE-10
PRACTICAL PAIRING SCHEME

Question	Retained Practicals								
1	1	2	3	4	5	6	7	8	---
2	9	10	11	12	13	14	15	16	17

INSTRUCTIONS FOR PRACTICAL EXAMINERS

- The practical paper will consist of 35 marks.
- Two out of four experiments will be performed by the students. Each experiment will carry 12 marks.
- Viva Voce will consist of 5 marks. Simple questions should be asked.
- A notebook, duly signed by the teacher and prepared by the student himself/herself, will be awarded 6 marks.

Distribution of 12 Marks

Procedure and Diagram (4)	Setting of Apparatus (2)	Performance (3)
Written Observation (2)	Result/Conclusion (1)	---

Note: The same distribution will be followed for the second experiment.
Practical Notebook: (6)
Viva Voce: (5)

PECTAA

MODEL PAPER FOR PRACTICAL OF HEALTH SCIENCES-10

Time Allowed: 2.00 hours **Maximum marks: 35**

Note: Attempt any one of the following practical. **(12)**

1. Simulate basic first aid for a suspected spinal cord injury

OR

Perform a handwashing awareness role-play to prevent childhood infections

Note: Attempt any one of the following practical. **(12)**

2. Simulate first aid response for snake bite and poisoning.

OR

Demonstrate sterilization in surgical settings using an autoclave

3. **Practical Notebook:** **(6)**
4. **Viva Voce:** **(5)**

Revised Smart Syllabus / Accelerated Learning Programme (ALP) of Information and Communication Technologies Grade-10 for Academic Session 2026-27 & BISE Exam-2027

Details of excluded content for Information and Communication Technologies-10 are as under:

NOTE: No question should be evaluated from excluded topics in any section, including: Unit Summary, Content-based questions, Exercises, MCQs, Short questions and Essay Type (Long) questions.

Unit No.	Unit Name	Excluded Content
01	**Basic Digital Literacy**	Adding Titles, Labels and Legends, Practical Uses of Spreadsheets (Page No. 8-9) **Exercise:** MCQs (Q. 9, 10) (Page No. 11) Short Questions (Q. 9, 10) (Page No. 11) Long Question (Q. 6) (Page No. 12)
02	**Emerging Technologies**	Nothing is excluded.
03	**Graphic Designing and Multimedia**	Practical Design Skills (Page No. 44-53) **Exercise:** MCQ (Q. 3) (Page No. 57) Short Questions (Q. 3, 4) (Page No. 57) Long Questions (Q. 3, 4) (Page No. 58)
04	**Web Development**	Form Handling and Validation (Page No. 71-75) **Exercise:** Short Question (Q. 7) (Page No. 77) Long Question (Q. 5) (Page No. 78)
05	**E-Commerce and Digital Marketing**	Analyzing and Improving Online Performance (Page 94-98) **Exercise:** MCQs (Q. 9, 10) (Page No. 101) Short Question (Q. 6) (Page No. 101) Long Question (Q. 5) (Page No. 102)
06	**Troubleshooting and Maintenance**	Complete Unit is excluded
07	**Artificial Intelligence (AI) Technologies**	Transforming Text into Visuals and Videos (Page No. 126-131) **Exercise:** MCQs (Q. 7-10) (Page No. 132-133) Short Questions (Q. 3, 8-10) (Page No. 133) Long Questions (Q. 2, 7, 8) (Pages 133-134)

PECTAA

Pairing Scheme

Instructions for Preparation of Exam Paper of Information & Communication Technologies for Class 10

ESSENTIAL INSTRUCTIONS FOR PAPER SETTERS

The paper of Information & Communication Technologies (ICT) for Class 10 will carry 40 marks. The duration for the Multiple-Choice Questions (MCQs) section will be 15 minutes, while the time allocated for the short and long questions section will be 1 hour and 45 minutes. The paper will be made as per the following details:

Part-I: Objective:	**Q-1:** Ten (10) Multiple Choice Questions. MCQs will be developed from the entire content of the textbook. • Two (2) MCQs will be asked from each of Chapters 2, 3, 4 and 7. • One (1) MCQ will be asked from each of Chapters 1 and 5.	1 × 10 = 10
Part-II: Subjective:	This section will contain two (2) short answer questions. Each short answer question will be asked from the entire content of the textbook. The details are as follows:	
	Q-2: Four (4) short answer questions have to be answered out of 6. The details are as follows: • One (1) short answer question will be asked from Chapter No. 1. • Two (2) short answer questions will be asked from Chapter No. 2. • Three (3) short answer questions will be asked from Chp. No. 3.	2 × 4 = 8
	Q-3: Four (4) short answer questions have to be answered out of 6. The details are as follows: • One (1) short answer question will be asked from Chapter No. 4. • Four (4) short answer questions will be asked from Chp. No. 5. • One (1) short answer question will be asked from Chapter No. 7.	2 × 4 = 8
Part-III: Subjective:	This section will contain three (3) detailed questions, and students have to attempt 2 questions carrying 7 marks each. Each detailed question should be asked from the entire content of the textbook. The details are as follows: **Q-4:** One (1) detailed question will be asked from Chapter 1. **Q-5:** One (1) detailed question will be asked from Chapter 4. **Q-6:** One (1) detailed question will be asked from Chapter No. 7.	7 × 2 = 14

PECTAA

Model Paper

Information and Communication Technologies (ICT) Grade-10

OBJECTIVE

Total Marks: 10 **Grade: 10** **Time Allowed: 15 mins**

Multiple Choice Questions (MCQ)

Q#1: Choose the correct option: **1 × 10 = 10**

i. The smallest unit in a spreadsheet is:

a. Row b. Column c. Cell d. Chart

ii. Which of the following is an example of emerging technologies?

a. Typewriter b. Radio c. Internet of Things (IoT) d.Tape Recorder

iii. Finding and fixing problems in the code or wiring is known as:

a. Testing b. Debugging c. Removing d. Recovering

iv. How is animation created?

a. By showing frames quickly b. By using a single picture

c. By changing color only d. By adding shadows

v. Where can graphic design be applied?

a. Advertising and education b. Film and web design

c. Only in books d. Only in architecture

vi. We can repeat our actions multiple times in JavaScript using:

a. Loops b. if statement c. if-else Statement d. Sequence Statements

vii. Which tag in HTML is used to insert an image on a web page?

a. <image> b.<src> c. <img> d. <pic>

viii. Which of the following is not example of CMS?

a. WordPress b. Wix c. Shopify d. Excel

ix. AI stands for:

a. Automated Information b. Artificial Intelligence

c. Advanced Interface d. Automated Interactions

x. Which AI concept helps chatbots understand user question:

a. Loops b. Intents c. Arrays d. Sprites

PECTAA

Model Paper

Information and Communication Technologies (ICT) Grade-10

SUBJECTIVE

Total Marks: 30 **Time Allowed: 1 hour and 45 mins**

Q#2: Write the answers to any four short questions. **2 × 4 = 8**

i. Write down at least two types of charts used in Spreadsheets.

ii. How sensors are used in daily life?

iii. Define emerging technologies?

iv. Define animation?

v. What is graphic design?

vi. What is the use of Text Alignment?

Q#3: Write the answers to any four short questions. **2 × 4 = 8**

i. Differentiate between Front-End and Back-End web development.

ii. Define Search Engine Optimization (SEO).

iii. What do you mean by digital marketing?

iv. What is the main goal of email marketing in Online Business?

v. Write two benefits of digital marketing.

vi. What are text-based AI tools like ChatGPT and Jasper used for?

Attempt any two long questions

Q#4: What is the purpose of sorting and filtering data in a spreadsheet? Explain with examples. **(07)**

Q#5: Discuss the differences between Front-End and Back-End development. **(07)**

Q#6: Describe the key concepts of chatbots, including intents, responses and Natural Language Processing (NLP). **(07)**

PECTAA

Excluded Practicals of ICT for Grade-10

Practical No.	List of Excluded Practicals
14-15	• Create a poster or flyer using text and shapes, practicing …….. • Create a small vector-based favourite icon……..
19-20	• Create a web form with various fields …… using JavaScript • Create a feedback form using JavaScript …….. and display feedback
23-27	• Assemble different parts of a cell ….. • Perform file sharing between computers ….. • Create and configure more networks with multiple devices …… • Replace the keyboard of a laptop • Replace the touch panel of a cell phone
29-31	• Create a Blog post using an AI writing tool • Give students a text prompt and ask them to use AI image ….. • Use an AI tool like Synthesia or other text-to-video applications…

PECTAA

PAIRING SCHEME

Instructions for Preparation of Practical Paper of Information and Communication Technologies for Class-10

ESSENTIAL INSTRUCTIONS FOR PAPER SETTERS

Total Marks: 35 **Time Allowed: 2 hours**

PART-1	The section will contain two Practical based Questions. The detail is as follows:	
	One (1) practical has to be performed out of 2. The detail is as follows: • One (1) practical will be taken from Practical No. 1 to Practical No. 6 • One (1) practical will be taken from Practical No. 7 to Practical No. 11 and Practical No. 28.	1 × 12 = 12
	One (1) practical has to be performed out of 2. The detail is as follows: • One (1) practical will be taken from Practical No. 12, 13 and 16. • One (1) practical will be taken from Practical No. 17, 18, 21 and 22.	1 × 12 = 12
PART-2	This section will consist of checking Practical Notebooks and conducting Viva Voce. The details are given below:	
	Practical Notebook	6
	Viva Voce	5

PECTAA

MODEL PRACTICAL PAPER
Information and Communication Technologies (ICT) Grade-10

Total Marks: 35 **Time Allowed: 2 hours**

Q. 1 Calculate the total sale of a retail store for each product over last 4 weeks using the SUM function. Product sales: Week 1 = 180, Week 2 = 160, Week 3 = 170, Week 4 = 200.

(a) Perform the task on computer. (05)

(b) Write step by step procedure on answer sheet. (07)

OR

Write code that enables the Arduino microcontroller to log temperature and humidity data from a DHT sensor to an SD card for periodic analysis.

(a) Perform the task and execute it. (05)

(b) Write step by step procedure on answer sheet. (07)

Q. 2 Design a basic logo using CorelDRAW or Illustrator, applying shapes, colors and text.

(a) Perform the task on computer. (05)

(b) Write step by step procedure on answer sheet. (07)

OR

Develop a static webpage using HTML and CSS that incorporates responsive design principles with Bootstrap.

(a) Perform the task on computer. (05)

(b) Write step by step procedure on answer sheet. (07)

3: Practical Notebook (06)

4: Viva Voce (05)

PECTAA

Revised Smart Syllabus / Accelerated Learning Programme (ALP) of Fashion Designing Grade-10 for Academic Session 2026-27 & BISE Exam-2027

Detail of Excluded Content of Chapters for Fashion Designing Grade-10

Chapter No.	Chapter Name
3	Technical Study of the Cultural Garments (Page 15 to Page 20)
7	Introduction to Pattern Making Basic Skirt Block (Page 50 to Page 53) Shirt Components (Page 55 to Page 61)
8	Pattern Making (Page 66 to Page 68)
10	Advance Sewing (Page 78 to Page 99)

Detail of Excluded Practicals for Fashion Designing Grade-10

Practical No.	Practical Name
3, 4, 5	Drawing Technical details of garments (Jamma, Angrakha, Peshwaz, Kurta)
8	Draw Basic Garment Design a *Jama*
14, 16	Embroidery Technique of French Knot, Hand Knitting Techniques
20	Kurta Pattern
29, 30	Create Different Types of Pockets, Attach Them to Fabric Pieces
31, 32, 33	Advance Sewing Techniques

PECTAA

Instructions for Preparation of Exam Paper of Fashion Designing for Grade-10

ESSENTIAL INSTRUCTIONS FOR PAPER SETTERS

The paper of Fashion Designing for Grade-10 will consist of 40 marks. Timing of the paper will be two (02) hours (Objective 15 minutes and Subjective 1:45 hours). The paper will be made as per following details:

Part-I: Objective Type	**Q-1:** 10 Multiple Choice Questions (MCQs) will be developed from the entire content of the textbook. One MCQ will be asked each from Chapter 1, 2, 6, 7, 8 & 9 whereas 2 MCQs will be asked from Chapter 4 and 5 each.	(1 × 10) = 10
Part-II: Subjective Type	This section will contain two (2) short answer questions. Each short answer question will be asked from the exercises of the textbook. The detail is as follows: **Q-2:** Four (4) short answer questions have to be answered out of 6. The detail is as follows: • One short answer question should be asked each from Chapter 1 and Chapter 2. • Two short answer questions should be asked each from Chapter 5 and Chapter 4.	(2 × 4) = 8
	Q-3: Four (4) short answer questions have to be answered out of 6. The detail is as follows: • One short answer question should be asked each from Chapter 7 and Chapter 8. • Two short answer questions should be asked each from Chapter 6 and Chapter 9.	(2 × 4) = 8
Part-III: Subjective type	This section will contain three (3) detailed questions and students have to attempt 2 questions carrying 7 marks each. Each detailed question will be asked from the exercises of the textbook. The detail is as follows: **Q-4:** One detailed question will be asked either from Chapter 1 or Chapter 2 or Chapter 4. **Q-5:** One detailed question will be asked either from Chapter 5 or Chapter 6. **Q-6:** One detailed question will be asked either from Chapter 7 or Chapter 8 or Chapter 9.	(7 × 2) = 14

PCTAA

MODEL PAPER OF FASHION DESIGNING FOR GRADE-10

Part-I (Objective Type)

Time allowed: 15 Mins. **Max. Marks: 10**

Q. 1: Attempt all questions: **(1 × 10) = 10**

(i) Which invention led to the rise of ready-made fashion?

a) Loom b) Sewing machine

c) Iron press d) Scissors

(ii) Which cultural influence brought geometric and calligraphic patterns into textile design?

a) Persian b) Islamic/Arab

c) British d) Central Asian

(iii) Which of the following best describe an A-Line Silhouette?

a) Fitted at the waist and hips b) Loose from shoulders to hem

c) Narrow at the shoulders d) Tight-fitted throughout the body

(iv) What does the term "silhouette" refer to in fashion design?

a) The colour scheme of a garment b) The overall outline of a garment

c) The type of fabric used in a garment d) The decorative details

(v) Which surface is required for Sublimation Printing?

a) Jamawar b) Jute

c) Polyester d) Silk

(vi) Design development is important because it:

a) Finalizes the garment cost b) Helps translate ideas into workable designs

c) Focuses only on fabric weaving d) Deals with photography

(vii) What type of designs are made on Ajrak?

a) Floral b) Geometric

c) Abstarct d) Lettering

(viii) The casing for the drawstring in shalwar is marked:

a) 2 cm down from the top edge b) 4 cm down from the top edge

c) 8 cm down from the top edge d) 6 cm down from the top edge

(ix) Which stitch is commonly used to finish the edges of thick fabrics like blankets?

a) Blind hem stitch b) Buttonhole stitch

c) Blanket stitch d) Herringbone stitch

(x) The part attached to secure the waistline of a shalwar is called the:

a) band b) belt

c) waistband d) facing

PCTA

Part-II (Subjective Type)

Time allowed: 1:45 Hrs. **Max. Marks: 30**

Q. 2: Answer any four of the following short questions. **(2 × 4) = 8**

(i) How did the invention of the sewing machine change the fashion industry?

(ii) Name any two traditional embroidery techniques of the Subcontinent.

(iii) What is technical croquis template?

(iv) What does the word Ralli means?

(v) Why is proportion important in garment design?

(vi) What is the method for screen printing?

Q. 3: Answer any four of the following short questions. **(2 × 4) = 8**

(i) What role does sketching play in garment design development?

(ii) Define pattern making.

(iii) What is theme research and why is it important for fashion design?

(iv) What is the function of the bicep line in sleeve construction?

(v) List down the types of collars?

(vi) What is the main purpose of buttonhole stitch?

Part-III (Subjective Type)

Attempt any two questions in detail from the following. **(7 × 2) = 14**

Q. 4: Explain the concept of silhouette in fashion design. Compare the characteristics and visual effects of the A-line, X-line, and Y-line silhouettes, and give suitable examples of garments that represent each.

Q. 5: Describe different methods used in design development, such as sketching, collage, and draping, and explain how they contribute to garment creation.

Q. 6: Differentiate between the blind hem stitch and the herringbone stitch?

PCTAA

Pairing Scheme for Practical Exam
Instructions for Preparation of Practical Exam Paper
of Fashion Designing for Class-10

ESSENTIAL INSTRUCTIONS FOR PAPER SETTRES

Maximum Marks: 35 **Time Allowed: 2 Hours**

Attempt any 2 practicals from the following:	
Note: Attempt any one of the following practical: **Q-1:** • 1 practical will be given from Unit 1, Unit 2 and Unit 4 (Practicals No. 1, 2, 6, 7, 9) **OR** • 1 practical will be given from Unit 5 (Practicals No. 10, 11, 12, 13, 15)	12
Q-2: • 1 practical will be given from Unit 6, Unit 7 and Unit 8 (Practicals No. 17, 18, 19, 21, 22) **OR** • 1 practical will be given from Unit 8 and Unit 9 (Practicals 23, 24, 25, 26, 27, 28)	12
This section will consist of checking practical notebooks and conducting Viva Voce. The details are as follows:	
Practical Notebook	6
Viva Voce	5

PSCTAA

Practical Model Paper for Fashion Designing Class-10

Maximum Marks: 35 **Time Allowed: 2 Hours**

Question No. 1 **(12)**

Note: Attempt any one of the following practical.

- Make a plain weave sample on a frame of cardboard or simple wooden frame (size: 8 × 8 inches) with fabric strips, threads, wool and ribbons for warp and weft (tana bana) and note the results.

OR

- Make a traditional tie-and-dye sample on an 8 × 8 inch piece of cotton or silk fabric using either the Bandhani or Lehrya technique.

Question No. 2 **(12)**

Note: Attempt any one of the following practical.

- Make a draft and cut the front and back pieces of a basic dartless bodice block on A4 pattern paper using standard size small measurements. Label both pieces and include seam and hem allowances.

OR

- Attach three pairs of hooks and eyes to an A4-sized piece of fabric by hand. Ensure that each pair is aligned and fastens securely.

Practical Notebook (6)

Viva Voce (5)

PSCTAA

Revised Smart Syllabus / Accelerated Learning Programme (ALP) Communication Skills and Personal Grooming Grade-10 for Academic Session 2026-27 & BISE Exam-2027

Detail of Excluded Chapters for Grade-10

Chapter No.	Chapter Name
06	Interpersonal Skills (Page 48 to 60)
09	Health and Nutrition (Page 85 to 100)

Detail of Excluded Practicals for Grade-10

Practical No.	Practical Name
12	Role-Playing Communication Scenarios (Conflict Resolution)
21	Analyzing Food Labels and Nutritional Content
22	Meal Planning for Special Diets and Nutritional Needs

PECTAA

Instructions for Preparation of Exam Paper of Communication Skills & Personal Grooming for Grade-10
Essential Instructions for Paper Setters

The paper of Communication Skills & Personal Grooming for Grade-10 will consist of 40 marks. Duration of the paper will be two (02) hours (Objective type 15 minutes and Subjective type 1:45 hours).

Objective type will be of 10 marks and subjective type of 30 marks. The paper will be made as per following details:

<table>
<tr>
<td>Part-I:
Objective:</td>
<td>Q. 1: Multiple Choice Questions
Ten (10) Multiple Choice Questions (MCQs) will be developed. The detail is as follows
<table>
<tr><th>Chapter</th><th>No. of MCQs</th><th>Chapter</th><th>No. of MCQs</th></tr>
<tr><td>1</td><td>2</td><td>2</td><td>2</td></tr>
<tr><td>3</td><td>2</td><td>4</td><td>1</td></tr>
<tr><td>5</td><td>1</td><td>7</td><td>1</td></tr>
<tr><td>8</td><td>1</td><td>…</td><td>…</td></tr>
</table>
</td>
<td>1 × 10 =10</td>
</tr>
<tr>
<td rowspan="2">Part-II:
Subjective:</td>
<td>This section will contain two (2) questions containing six (6) short answer questions (SAQs) each. Every SAQ will be taken from the exercises of the textbook. For each question, four (4) SAQs must be attempted out of six (6). The detail is as follows:
Q. 2:
<table>
<tr><th>Chapter</th><th>No. of SAQs</th><th>Chapter</th><th>No. of SAQs</th></tr>
<tr><td>1</td><td>1</td><td>2</td><td>1</td></tr>
<tr><td>3</td><td>2</td><td>4</td><td>2</td></tr>
</table>
</td>
<td>2 × 4 = 8</td>
</tr>
<tr>
<td>Q.3:
<table>
<tr><th>Chapter</th><th>No. of SAQs</th><th>Chapter</th><th>No. of SAQs</th></tr>
<tr><td>5</td><td>2</td><td>7</td><td>2</td></tr>
<tr><td>8</td><td>2</td><td>…</td><td>…</td></tr>
</table>
</td>
<td>2 × 4 = 8</td>
</tr>
<tr>
<td>Part-III:
Subjective:</td>
<td>This section will contain three (3) detailed questions out of which two (2) must be attempted. Each question carries 7 marks. Every question will be taken from the exercises of the textbook. The detail is as follows:
Q.4: One detailed question will be taken either from Chapter 1, 2 or 3.
Q.5: One detailed question will be taken either from Chapter 4 or 5.
Q.6: One detailed question will be taken either from Chapter 7 or 8.</td>
<td>7 × 2 =14</td>
</tr>
</table>

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MODEL PAPER

Communication Skills and Personal Grooming Grade-10

Time allowed: 2 Hrs. **Max. Marks: 40**

PART-I (OBJECTIVE TYPE)

Q. 1: Choose the correct option. **(1 × 10 = 10)**

(i) The least effective persuasion method is:

(a) storytelling (b) manipulation
(c) facts (d) audience awareness

(ii) Facebook should focus on:

(a) Personality (b) behaviour
(c) emotions (d) assumptions

(iii) Which outfit is most suitable for a job interview?

(a) jeans and t-shirt (b) shalwar kameez with waistcoat
(c) sports tracksuit (d) party dress

(iv) Casual attire usually includes:

(a) collared shirt with trousers (b) jeans and t-shirts
(c) three-piece suit (d) bright party wear

(v) Which type of interview asks about past experiences?

(a) situational (b) behavioural
(c) technical (d) virtual

(vi) The most essential document in every interview is:

(a) storybook (b) resume
(c) family Photos (d) calculator

(vii) An example of positive thinking is the practice of:

(a) complaining about difficulties (b) journaling
(c) comparing yourself with others (d) expecting failure

(viii) A student notices that he gets irritated whenever he is hungry. This is an example of:

(a) empathy (b) self-awareness
(c) conflict resolution (d) leadership

(ix) Resilience means:

(a) avoiding all challenges in any case (b) recovering from setbacks with strength
(c) never asking for help from anyone (d) ignoring difficulties as much as one can

(x) Appropriate behaviour on social media includes:

(a) cyberbullying (b) using offensive language
(c) sharing positive content (d) plagiarism

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PART-II (SUBJECTIVE TYPE)

Q. 2: Attempt any four out of the following six parts: **2 × 4 = 8**

(i) Define communication in your own words.

(ii) Compare formal and casual dress codes with examples.

(iii) List three essential documents that should be carried to an interview.

(iv) Differentiate between behavioural and situational interview questions with one example each.

(v) Mention two factors that influence self-esteem.

(vi) Write three benefits of positive thinking.

Q. 3: Attempt any four out of the following six parts: **2 × 4 = 8**

(i) Define emotional intelligence in your own words.

(ii) List two examples of basic emotions and their triggers.

(iii) Define procrastination with an example.

(iv) List the five steps in the decision-making process.

(v) What is meant by digital footprint?

(vi) List two principles of professionalism in online communication.

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PART-III (SUBJECTIVE TYPE)

Attempt any two questions in detail from the following: **7 × 2 = 14**

Q. 4: Suggest techniques to manage conflict in a group project.

Q. 5: Define empathy and self-awareness. Explain how they are connected.

Q. 6: Discuss common barriers to achieving goals and strategies for overcoming them.

PAIRING SCHEME FOR PRACTICAL PAPER
COMMUNICATION SKILLS AND PERSONAL GROOMING
GRADE-10

Instructions for Preparation of Practical Paper of Communication Skills and Personal Grooming for Grade-10

Maximum Marks: 20 **Time Allowed: 2 Hours**

Attempt any 2 Practicals from the following: Marks

Note: Attempt any one of the following practical:

Practical: 1 7

- 1 practical will be given from (Practicals 2, 3, 4 and 6)

OR

- 1 practical will be given from (Practicals 7, 8, 9 and 13)

Practical: 2 7

- 1 practical will be given from (Practicals 14, 15, 16 and 17)

OR

- 1 practical will be given from (Practicals 18, 19, 20 and 23)

This section will consist of checking practical notebooks and conducting Viva Voce. The detail is as follows:

Practical Notebook	4
Viva Voce	2

PECTAA

MODEL PRACTICAL

COMMUNICATION SKILLS & PERSONAL GROOMING GRADE-10

Maximum Marks: 20 **Time Allowed: 2 Hours**

Practical :1

Note: Attempt any one of the following practical. 7

(a) Deliver a speech to the class on the importance of time management.

OR

(b) The teacher will read a passage before the entire class. The students will listen actively to the passage, write the key points in their own words and share them with the class.

Practical: 2

Note: Attempt any one of the following practical. 7

(a) Students work together to plan a school trip.

OR

(b) Practice responding to opposing view point respectfully and improve persuasion skills.

Practical Notebook: 4

Viva Voce: 2

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IMPORTANT NOTE

PECTAA has neither developed nor notified any "Smart Syllabus / ALP" for the subjects of "Tarjama-tul-Quran" and "Ethics" for Grades 9 to 12.