

ENGLISH COMMUNICATIVE - Code No. 101
SAMPLE QUESTION PAPER
CLASS-X-(2025-26)

Time allowed: 3 Hrs.

Maximum Marks: 80

General Instructions

Read the following instructions carefully and follow them:

- i. This question paper has 12 questions. All questions are compulsory.
- ii. This question paper contains three sections:
Section A: Reading Skills,
Section B: Writing Skills
Section C: Grammar
Section D: Literature.
- iii. Attempt all questions based on specific instructions for each part. Write the correct question number and part thereof in your answer sheet.
- iv. Separate instructions are given with each question/part, wherever necessary.
- v. Adhere to the prescribed word limit while answering the questions.

SECTION A: READING SKILLS (22 marks)

1. Read the following passage carefully:	12
1	Remote, icy and mostly pristine, Greenland plays an outsized role in the daily weather experienced by billions of people and in the climate changes taking shape all over the planet. Think of Greenland as an open refrigerator door or thermostat for a warming world, and it's in a region that is warming four times faster than the rest of the globe, said New York University climate scientist David Holland.
2	Locked inside are valuable rare earth minerals needed for telecommunications, as well as uranium, billions of untapped barrels of oil and a vast supply of natural gas that used to be inaccessible but is becoming less so. Many of the same minerals are currently being supplied mostly by an Asian country, so other countries are interested. But more than the oil, gas or minerals, there's ice — a "ridiculous" amount, said climate scientist Eric Rignot. If that ice melts, it would reshape coastlines across the globe and potentially shift weather patterns in a dramatic manner. Greenland holds enough ice that if it all melts, the world's seas would rise by 24 feet.
3	Since 1992, Greenland has lost about 182 billion tons of ice each year, with losses hitting 489 billion tons a year in 2019. Greenland will be 'a key focus point' through the 21st century because of the effect its melting ice sheet will have on sea levels, said Mark Serreze, director of the National Snow and Ice Data Center. "It will likely become a bigger contributor in the future." That impact is perhaps unstoppable. Greenland is also changing colour as it melts from the white of ice, which reflects sunlight, heat and energy away from the planet, to the blue and green of the ocean and land, which absorb much more energy.

4 Greenland also serves as the engine and on/off switch for a key ocean current that influences Earth's climate in many ways, including hurricane and winter storm activity. It's called the Atlantic Meridional Overturning Circulation, or AMOC, and it's slowing down because more fresh water is being dumped into the ocean by melting ice in Greenland. A shutdown of the AMOC conveyor belt is a much-feared climate tipping point that could plunge Europe and parts of North America into prolonged freezes. "If this global current system were to slow substantially or even collapse altogether — as we know it has done in the past — normal temperature and precipitation patterns around the globe would change drastically," said climate scientist Jennifer Francis of the Woodwell Climate Research Center. "Agriculture would be derailed, ecosystems would crash, and 'normal' weather would be a thing of the past."

5 None of that takes into consideration the unique look of the ice-covered island that has some of the Earth's oldest rocks. "I see it as insanely beautiful. It's eye-watering to be there," said Holland, who has conducted research on the ice more than 30 times since 2007. "Pieces of ice the size of the Empire State Building are just crumbling off cliffs and crashing into the ocean. And also, the beautiful wildlife, all the seals and the killer whales. It's just breathtaking."

515 words / Adapted from The Hindu (Environment -January 08, 2025 post)

Answer the following questions, based on the passage above.

I Why is Greenland referred to as 'an open refrigerator door or thermostat for a warming world'? 1
(Paragraph 1)

a) It controls global temperatures directly like a thermostat.
b) It is warming at the same rate as the rest of the globe.
c) It plays a critical role in influencing global weather and climate patterns.
d) It experiences warming but has limited influence on global weather patterns.

II Complete the following with the correct option from those given in the brackets. 1
In the line 'Greenland plays an outsized role...', the word 'outsized' indicates _____
(an unusually large impact or importance / a role that exceeds expectations or norms / a disproportionate influence compared to its size). (Paragraph 1)

III Give two reasons why 'other countries' might be interested in Greenland's rare earth minerals and resources. Answer in 30-40 words. 2
(Paragraph 2)

IV What does Eric Rignot mean by 'ridiculous' in the phrase 'a ridiculous amount'? 1
(Paragraph 2)

Select the correct option to complete the answer.

It means that the ice is _____.
a) unnecessary and excessive
b) vast and overwhelming in quantity.
c) beyond what scientists can measure.
d) challenging to fully comprehend.

V Complete the following with the appropriate option.

1

The phrase 'Locked inside' brings up the imagery of a _____. (Paragraph 2)

- a) vault, emphasising security and value
- b) box, symbolising concealment and mystery.
- c) room, highlighting stored abundance.
- d) warehouse, showcasing accessibility and volume.

VI. What would be the most suitable title for paragraph 3?

1

- a) Greenland's Changing Climate and Ecosystem
- b) The Rising Sea Levels and Climate Impact of Greenland
- c) Greenland's Ice Melt: A Threat to Global Energy Balance
- d) Greenland's Melting Ice: A Growing Concern for the 21st Century

VII. Which phrase from paragraph 4 bears evidence to the fact that Greenland plays a critical role in controlling the AMOC?

1

VIII Fill in the blank by choosing the appropriate option from those given in the brackets.

2

Paragraph 4 includes a _____ (viewpoint / warning / speculation) by Jennifer Francis.

IX Why does Holland describe Greenland as 'eye-watering'? Answer in 30-40 words. (Paragraph 5)

2

2. Read the following.

10



FAIRS

NAGAUR FAIR - 2025

The Nagaur Fair is the second biggest fair in India. Held every year between the months of January and February, it is popularly known as the Cattle Fair of Nagaur as this is where owners gather to trade animals. Approximately 70,000 bullocks, camels and horses are traded every year at this fair. The animals are lavishly decorated and even their owners dress up with colourful turbans. Besides cattle, sheep, horses and even spices are traded. Other attractions include the Mirchi Bazaar (largest red chilli market of India).



FESTIVALS

ABHANERI FESTIVAL - 2025

'Abhaneri festival' is named after the village Abhaneri in the Dausa district which is around 90 km from Jaipur on the Agra road. This two-day festival has gained immense popularity amongst the tourists around the globe. It commences with various Rajasthani & local folk performances like Kachhi Ghori, Kalbeliya, Ghoomar, and Bhawai. The village of Abhaneri was originally named Abha Nagri, meaning 'city of brightness'. The place is popular for the Chand Baori-step well, one of the largest step wells built over a thousand years ago.

Source: www.tourism.rajasthan.gov.in / 190 words approx. / MCB theme : Travel & Tourism

Answer the following questions, based on your reading of the above information.

I. Why is the tag 'A Hub for Livestock Trading' suitable for the Nagaur fair instead of 'Colourful Celebrations'? 2

II. Complete the following with the correct option. 1

The Nagaur Fair is held ____.

- a) quarterly
- b) once in two years
- c) annually
- d) twice in a year

III. State which of the following is True. 1

- a) Chand Baori is referred to as 'Abha Nagri'.
- b) Chand Baori is a recent construction.
- c) Chand Baori is an ancient stepwell.

IV. What does the writer wish to convey by stating that the Abhaneri Festival 'has gained immense popularity among tourists'? 1

V. What might be the most likely reason for the lavish decorations of animals at the Nagaur Fair? 1

- a) To celebrate the cultural heritage of Rajasthan.
- b) To attract buyers and showcase the animals for trading.
- c) To compete for the best-decorated animal.
- d) To honour the animals as part of a religious ritual.

VI. Fill in the blank by choosing the correct option from those given in the brackets. 1

The Mirchi Bazaar is most likely an attraction at the Nagaur Fair because it provides a platform for ____ (tourists and organisers / farmers and traders) to display an essential spice.

VII. If the Nagaur Fair highlights trading as its primary focus, what does the Abhaneri Festival most likely focus on? 1

- a) Promoting local agriculture
- b) Encouraging community interaction
- c) Celebrating historical heritage
- d) Showcasing regional culture

VIII. What might be the most likely reason why the Nagaur Fair spans across four days while the Abhaneri Festival ends in two days? 2

SECTION B **WRITING SKILLS (22 marks)**

All the names and addresses used in the questions are fictitious. Resemblance, if any, is purely coincidental.

3. Write an application, in not more than 50 words, requesting permission to use the **1x3=3** school transport to attend a tree plantation volunteering event. You are Lakshit Pandey, Class X-C, Vice-President, Ecology Club.

4. Write a factual description of your favourite gadget in not more than 100 words, **1x4=4** highlighting its key features and functionalities.

5. Attempt **any one** of the two, (A) or (B), in 120 words **1x7=7**

A. The digital divide refers to the gap between those who have access to technology, such as the internet and digital devices, and those who do not. This disparity has significantly impacted education, especially for students from marginalised segments, by limiting their ability to access online resources and virtual classes.

As Sakshi Tripathi, 120 Kailash Nagar, Batanpur, write a letter to the editor of a national daily highlighting the issue, its effects on students and teachers, and suggesting practical measures to bridge this gap.

Use your own ideas along with those from MCB Unit 2: Education, to write this letter.

OR

B. India is home to a rich geological heritage, with unique landforms and rock formations like the Lonar Crater, Bhimbetka Rock Shelters etc. that hold immense scientific, educational, and cultural value. However, these sites often face neglect, vandalism, and lack of proper conservation efforts.

As Tanush of 63, Lajpat Nagar, Agra, write a letter to the editor of a national daily highlighting the importance of preserving India's geological heritage, the challenges it faces, and suggesting measures to protect and promote these natural treasures.

Use your own ideas along with those from MCB Unit 4 E: Environment – Geological Heritage, to write this letter.

6. Attempt **any one** of the two, (A) or (B), in 150 words **1x8=8**

A. Imagine you are Vitthal K of class X. Write an article for your school magazine on the topic 'Achieving Holistic Wellness: The Key to a Happy Life,' emphasising the role of physical health, mental well-being, and positive lifestyle habits and natural remedies. Explain how these factors contribute to a balanced and fulfilling life, and suggest practical steps for incorporating them into daily routines.

You may use your own ideas along with the given cues and your reading of MCB Unit 1: Health and Wellness

holistic wellness - key aspects - simple habits can improve overall wellness -
actionable ways needed to integrate wellness into everyday routines

OR

B You are Kadambari Rao, class X. Write an article on the topic 'Space Travel: Accessible Tourism or a Risky Adventure?' highlighting the potential benefits and challenges of making space travel available to the general public. Discuss whether space tourism should be pursued considering its environmental impact, safety concerns, and accessibility. Conclude with your opinion on whether it is a step forward or a risk not worth taking.

You may use your own ideas along with the given cues and your reading of the MCB Unit 3: Science.

Potential Benefits - Challenges and Concerns: Environmental impact of frequent rocket launches (carbon emissions, pollution); accessibility opportunities creating inequalities; safety risks - Key Considerations: Should resources be focused on improving conditions on Earth instead?

SECTION C
GRAMMAR (10 marks)

7. Fill in the blanks (i) – (iii) with the appropriate option from those in the brackets. **3x1=3**

Therapeutic gardens are a public health measure and key to Singapore's aim of (i) _____ (become/ becoming/ will becoming) one of the world's top wellness destinations. In a tourism sense, wellness often (ii) _____ (had referred / refers / referring) merely to spa treatments but Singapore's approach is more scientific. Singapore now (iii) _____ (have view/ has viewed / views) Therapeutic gardens as a forward-thinking tourism strategy.

8. In the following paragraph, one word has been omitted in each line. In your answer sheets, remember to write the missing word along with the word that comes before and after it, as shown below. The first one has been done as an example **4x1=4**

S No.	Text	Word Before	Omission	Word After
e.g.	The environment is most precious resource.	is	our	most
i	We reduce waste, conserve energy, and plant			
ii	more trees to combat pollution. This planet is only			
iii	home we have. Each action, big or small, make a			
iv	significant difference. We act now to safeguard			
	the environment and prevent it from further harm.			

I Rearrange the following jumbled words/phrases in the given dialogue to create a meaningful sentence. 1

RAVI: Priya! Tell me about Orissa. I've always been curious about your state's culture and traditions.

PRIYA: (i) for our / in the eastern / is a beautiful / state / temple architecture/ rich heritage, part of India / and we are known / vibrant festivals / Orissa / and exquisite

II. Report the conversation given below by filling in the blanks to complete the following paragraph. 2

Aanya: Hey, Rohan! Did you hear about the new discovery in space announcement yesterday?

Rohan: I heard about finding a planet with water vapour in its atmosphere!

Anya asked Rohan (i) _____. Rohan exclaimed (ii) _____ in its atmosphere. Then, Anya added that the new planet was in the 'habitable zone' with life-supporting conditions.

SECTION D: LITERATURE TEXTBOOK (26 MARKS)

10. Read the given extract and answer the questions briefly, for any two extracts, 2X4=8 of the three, given.

A. "I thought you picked fruit for a living," I said.

"We do many things, sir," Nicola answered seriously. He glanced at us hopefully. "Often we show visitors through the town ... to Juliet's tomb ... and other places of interest."

Alright, "I smiled. "You take us along."

As we made the rounds, my interest was again provoked by their remarkable demeanour. They were childish enough, and in many ways quite artless. Jacopo was as lively as a squirrel. Nicola's smile was steady and engaging. Yet in both these boyish faces there was a seriousness which was far beyond their years.

(Two Gentlemen of Verona)

I What might have been the most likely tone of the statement in 'I thought you picked fruit for a living...'? 1

II Why did Nicola glance hopefully at the narrator? 1

III What does the boys' willingness to engage in multiple tasks reveal about their attitude toward life? 1

IV What does the narrator's growing interest in the boys suggest about his perception of them? 1

B. "My name is Ozymandias, king of kings:
Look upon my works, ye Mighty, and despair!"
Nothing beside remains. Round the decay
Of that colossal wreck, boundless and bare
The lone and level sands stretch far away. (Ozymandias)

I How does the phrase 'king of kings' reflect Ozymandias' perception of himself? 1

II What does the line 'Look upon my works, ye Mighty, and despair!' imply about Ozymandias' intentions for future rulers? 1

III How does the imagery of 'boundless and bare' and 'lone and level sands' challenge Ozymandias' boast? 1

IV What message does the phrase "Nothing beside remains" convey about human ambition? 1

C. MRS. JORDAN: What bureau was that, Father?

ABEL: Why, my bureau the one I bought
MRS. JORDAN: (pointing to the bureau) Was it that one. Father?
ABEL: Ah, that's it. What's it doing here? Eh? (A pause. The clock on the mantelpiece strikes six. Everyone looks at it.)
Drat me if that isn't my clock too! What the devil's been going on in this house? (A slight pause.)
BEN: Well, I'll be hanged.

MRS. JORDAN: I'll tell you what's been going on in this house. Father. Nothing short of robbery.

MRS. SLATER: Be quiet, Elizabeth.

MRS. JORDAN: (rising) I'll not be quiet. Oh, I call it double-faced.

HENRY: Now now, Elizabeth.

MRS. JORDAN: And you, too. Are you such a poor creature that you must do every dirty thing she tells you?

MRS. SLATER: (rising) Remember where you are, Elizabeth.

HENRY: (rising) Come, come. No quarrelling.

(The Dear Departed)

I What does the dialogue between Mrs. Jordan and Mrs. Slater reveal about their relationship? 1

II What is Mrs. Jordan implying about Henry when she says, "And you, too. Are you such a poor creature that you must do every dirty thing she tells you?" 1

III How does Mrs. Jordan's accusation of 'robbery' impact the atmosphere of the scene 1
in the extract?

IV What does Abel's reaction to finding his possessions in the living room suggest about 1
his awareness of his daughters' intentions?

11. Answer any five of the following six questions in about 30-40 words each. 5x2=10

I Support the view that the villagers were active participants in supporting Mrs. 2
Packletide's ambition in the story 'Mrs. Packletide's Tiger'?

II Explain briefly how the story 'Patol Babu' portrays the conflict between material 2
rewards and self-satisfaction.

III How does the mood shift throughout the story, 'The Letter'? 2

IV How does the author use technology as a plot device in the story 'Virtually True'? 2

V What role does the bog's audience play in the downfall of the nightingale in the poem 2
'The Frog and the Nightingale'?

VI How does the structure of a Shakespearean sonnet enhance the impact of the poem, 2
'Not Marble, nor the Gilded Monuments'?

12. Answer any one of the following two questions in about 150 words. 1x8=8

I Discuss how the supernatural is portrayed in the drama excerpt 'Julius Caesar' and 'A Shady Plot' and examine how these portrayals serve to influence the characters' actions and the progression of the plot in each work?

OR

II Both poems, 'The Rime of the Ancient Mariner' and 'Snake', depict the killing or harm of an innocent creature. Compare how the poets use these actions to reflect on human guilt and morality.

हिन्दी पाठ्यक्रम-ब (कोड 085)
प्रतिदर्श प्रश्नपत्र*
कक्षा-दसवीं (2025-26)

निर्धारित समय: 3 घंटे

अधिकतम अंक: 80

सामान्य निर्देश :

निम्नलिखित निर्देशों को बहुत सावधानी से पढ़िए और उनका सख्ती से अनुपालन कीजिए :

- (i) इस प्रश्नपत्र में कुल चार खंड हैं- क, ख, ग, घ।
- (ii) इस प्रश्नपत्र में कुल 16 प्रश्न हैं। सभी प्रश्न अनिवार्य हैं।
- (iii) प्रश्नपत्र में आतंरिक विकल्प दिए गए हैं।
- (iv) प्रश्नों के उत्तर दिए गए निर्देशों का पालन करते हुए लिखिए।

	खंड - क (अपठित बोध)	14
1	<p>निम्नलिखित गद्यांश को ध्यानपूर्वक पढ़कर उस पर आधारित पूछे गए प्रश्नों के उत्तर लिखिए :</p> <p>कार्य करने की क्षमता को योग्यता कहते हैं। यह सभी जीवों में किसी न किसी रूप में अवश्य विद्यमान रहती है। यही व्यक्ति की कार्य क्षमता का प्रमाण होती है। विविध शैक्षिक संसाधनों के माध्यम से इसे अर्जित और विस्तारित किया जा सकता है। सामाजिक उत्थान और देश की प्रगति के लिए योग्य एवं ईमानदार नागरिकों की आवश्यकता होती है। इस हेतु उत्कृष्ट शैक्षिक योजना का क्रियान्वयन आवश्यक है। शिक्षा व्यक्ति में गुणवत्ता का आद्यान कर योग्यता का निर्धारण करती है। पारिवारिक पृष्ठभूमि उसे मजबूत आधार प्रदान करती है। बच्चे में इसके प्रकटीकरण का आभास सर्वप्रथम माता-पिता को होता है। वही उसकी योग्यता को परखकर तदनुरूप उत्तरदायित्व सौंपने के लिए उत्तरदायी होते हैं। इससे कार्य के प्रति निष्ठा जागृत होती है और कार्य सिद्धि अवश्यंभावी हो जाती है अन्यथा असफल होने पर जीवन में अवसाद का प्रवेश होता है, जिससे होने वाली सामाजिक एवं राष्ट्रीय क्षति का अनुमान भी नहीं लगाया जा सकता। महाराज दशरथ और रानी कैकेयी इसके उत्कृष्ट उदाहरण हैं। जहाँ महाराज दशरथ राम को अवध का राज्य देना चाहते हैं, वहीं कैकेयी राम एवं भरत दोनों की योग्यताओं को पहचानती हैं। उन्हें सम्यक ज्ञान था कि भरत में भी अयोध्या का राज्य सँभालने की योग्यता है, किंतु राम अधर्मी राक्षसों का संहार कर संपूर्ण जगत का मंगल कर सकते हैं। इसीलिए दुनिया में होने वाली अपकीर्ति की परवाह न करके भी भरत के लिए अवध का राज्य तथा राम के लिए वनवास की याचना की।</p> <p>अतः संतान को जन्म देना ही माता-पिता का कर्तव्य नहीं है। योग्य नागरिक बनाकर योग्यतानुसार राष्ट्र-निर्माण में नियोजित करना उससे बड़ा दायित्व है।</p>	7
(क)	(दैनिक जागरण)	1
(i)	व्यक्ति की कार्यक्षमता का प्रमाण होता है -	

*कृपया ध्यान दें, शैक्षणिक सत्र 2024-25 की मूल्यांकन योजना वर्तमान सत्र अर्थात् 2025-26 में भी जारी रहेगी।

	(ii) योग्यता (iii) शिक्षा (iv) कौशल	
(ख)	उत्कृष्ट शैक्षिक योजना की आवश्यकता क्यों होती है ? (i) संसाधन के विकास हेतु (ii) शिक्षा के प्रसार हेतु (iii) व्यक्तित्व निर्माण हेतु (iv) योग्यता निर्धारण हेतु	1
(ग)	निम्नलिखित कथन और कारण पर विचार करते हुए उपयुक्त विकल्प चुनिए : कथन : कैकेयी महाराज दशरथ से अधिक बुद्धिमान थी । कारण : वह राम और भरत की योग्यताओं को अच्छी तरह जानती थी । (i) कथन सही है लेकिन कारण गलत है । (ii) कथन और कारण दोनों सही है । (iii) कथन गलत है और कारण सही है । (iv) कथन और कारण दोनों गलत है ।	1
(घ)	देश की प्रगति के लिए योग्य एवं ईमानदार नागरिकों की आवश्यकता क्यों होती है ?	2
(ङ)	महाराज दशरथ और रानी कैकेयी के उदाहरण से आप क्या समझते हैं ?	2
2	निम्नलिखित गद्यांश को ध्यानपूर्वक पढ़कर उस पर आधारित पूछे गए प्रश्नों के उत्तर लिखिए : दीप प्रज्वलन आदि संस्कृतियों का अभिन्न अंग रहा है । धार्मिक अनुष्ठान किसी भी पंथ का अंग रहा है । धार्मिक अनुष्ठान किसी भी पंथ का हो, दीप प्रज्वलन के बिना आज भी संपन्न नहीं माना जाता । दीपावली और गुरुनानक जयंती, हमारे दो प्रमुख दीप पर्व हैं । जगमगाते आवासीय और कार्य परिसर जनमानस के हर्षोल्लास की अभिव्यक्ति देते हैं, उनमें आशा एवं उत्साह का संचार करते हैं । आवासीय, शैक्षिक, औदयोगिक भवन यहां तक कि नाभिकीय संयंत्र का शिलान्यास या किसी भी कोटि की संगोष्ठी का उद्घाटन हम अनिवार्यतः दीया जला कर करते हैं । प्रज्वलित दीप से परिवेश की नकारात्मकता निराकृत होती है, वातावरण शुद्ध होता है, दैविक शक्तियों का आगमन आसान होता है । अधिसंख्य व्यक्ति क्लेश, विवाद और भ्रांतियों से इसलिए त्रस्त हैं, चूंकि उन्हें जीवन के परम उद्देश्य और इसकी अधिप्राप्ति के आवश्यक साधनों और विधियों का ज्ञान नहीं है । उद्देश्य की स्पष्टता से सुसंगत सोच और उसी अनुरूप संगत निर्मित करेंगे तो अभीष्ट की प्राप्ति आवश्यक होगी । प्रकाश ज्ञान और देवत्व का प्रतीक है । अंधकार कितना भी हो, एक जलते दिये से लुप्त हो जाता । अंधकार रूपी अज्ञान को मिटाने में दीपक की भूमिका निर्विवाद है । यह दीपक उस सद्बुद्धि और विवेक का है, जो एक ओर व्यक्ति की प्रभु से निकटता स्थापित करता है और दूसरों को सन्मार्ग पर चलने की प्रेरणा देता है । आवरण धोखा दे सकता है । बाह्य चमक-दमक और लीपापोती की आतुरता में अंतःकरण की उपेक्षा हो सकती है । अपने मूल दैनिक रूप की पहचानें निखारते रहें, तो जीवन सार्थक हो जाएगा ।	7

- (दैनिक जागरण)

(क)	अंधकार को किसके समान बताया गया है?	1
	(i)मूर्खता	
	(ii) अज्ञान	
	(iii) क्लेश	
	(iv) निराशा	
(ख)	प्रकाश को देवता का प्रतीक क्यों कहा गया है ?	1
	(i)प्रकाश फैलाने से	
	(ii)सद्बुद्धि के प्रसार से	
	(iii)अंधकार को दूर करने से	
	(iv)भगवान की आरती करने से	
(ग)	निम्नलिखित कथन और कारण पर विचार करते हुए उपयुक्त विकल्प चुनिए : कथन : किसी भी संगोष्ठी का उद्घाटन दीया जला कर होता है । कारण : दीप प्रज्ज्वलन से वक्ता में आशा और उत्साह का संचार होता है। (i) कथन सही है लेकिन कारण गलत है । (ii) कथन और कारण दोनों सही है । (iii) कथन गलत है और कारण सही है । (iv) कथन और कारण दोनों गलत है ।	1
(घ)	जीवन की सार्थकता से आप क्या समझते हैं?	2
(ङ)	दीपक की भूमिका को स्पष्ट कीजिए ।	2
	खंड-ख (व्यावहारिक व्याकरण)	16
3	पदबंध पर आधारित पाँच प्रश्नों में से किन्हीं चार प्रश्नों के उत्तर लिखिए	$4 \times 1 = 4$
(क)	'सर्वनाम पदबंध' का प्रयोग करते हुए एक वाक्य बनाइए ।	
(ख)	यह लड़का हमेशा कोई न कोई शरारत <u>करता रहता है</u> । रेखांकित का पदबंध बताइए?	
(ग)	क्रिया विशेषण पदबंध का एक उदाहरण देकर वाक्य में प्रयोग कीजिए?	
(घ)	तलवार की सीधमें <u>धरती</u> फटती ही जा रही थी - वाक्य में रेखांकित पदबंध की पहचान कीजिए।	
(ङ)	पास में एक सुंदर और शक्तिशाली युवक रहा करता था - पंक्ति में प्रयुक्त विशेषण पदबंध को चुनकर लिखिए ?	
4	रचना के आधार पर वाक्य रूपांतरण पर आधारित पाँच प्रश्नों में से किन्हीं चार प्रश्नों के उत्तर लिखिए -	$4 \times 1 = 4$
(क)	मेरे भाई साहब मुझसे पाँच साल बड़े थे लेकिन केवल तीन दरजे आगे । वाक्य का भेद लिखिए	
(ख)	फिर सालाना इम्तिहान हुआ और कुछ ऐसा संयोग हुआ कि मैं फिर पास हुआ- वाक्य भेद लिखिए ।	
(ग)	जब अविनाश बाबू ने झंडा गाड़ा तब पुलिस ने उनको पकड़ लिया। संयुक्त वाक्य में रूपांतरित कीजिए ।	

(घ)	जो बात उनकी ज़िंदगी में थी वहीं उनके गीतों में थी। यह मिश्र वाक्य कैसे है ?	
(ङं)	सरल वाक्य का एक उदाहरण लिखकर उसे स्पष्ट भी कीजिए ?	
5	समास पर आधारित पाँच प्रश्नों में से किन्हीं चार प्रश्नों के उत्तर लिखिए -	4×1=4
(क)	राम भी तुम, तुम ही लक्ष्मण साथियों - पंक्ति में प्रयुक्त राम, लक्ष्मण से सामासिक पद बनाकर भेद लिखिए।	
(ख)	'करुणाकर' सामासिक पद में प्रयुक्त पूर्व पद और उत्तर पद अलग कर समास का नाम लिखिए।	
(ग)	'अनाथ' का सामासिक विग्रह कर समास का नाम लिखिए।	
(घ)	कर्मधारय समास के किसी एक उदाहरण का वाक्य प्रयोग कीजिए।	
(ङं)	'त्रिभुज' का सामासिक विग्रह कर समास का नाम लिखिए।	
6	'मुहावरे' पर आधारित पाँच प्रश्नों में से किन्हीं चार प्रश्नों के उत्तर लिखिए -	4×1=4
(क)	भाई साहब का रूद्र-रूप देखकर ----- जाते। (उपयुक्त मुहावरे द्वारा रिक्त स्थान को भरिए)	
(ख)	'हक्का-बक्का रह जाना' मुहावरे का वाक्य में प्रयोग कीजिए।	
(ग)	'आँखों में धूल झोंकना' तथा 'आँखों में बसाना' मुहावरे में अंतर स्पष्ट कीजिए।	
(घ)	फिल्म की संवेदना किसी दो से चार बनाने का गणित जानने वाले की समझ से परे थी । पंक्ति से मुहावरा चुनकर वाक्म में प्रयोग कीजिए?	
(ङं)	गायन इतना प्रभावी था कि वह अपनी ----- लगा । उचित मुहावरे द्वारा रिक्त स्थान की मूर्ति कीजिए ।	
	खंड - ग (पाठ्य पुस्तक एवं पूरक पाठ्य पुस्तक)	28
7	निम्नलिखित पठित गद्यांश पर आधारित बहुविकल्पीय प्रश्नों के सर्वाधिक उपयुक्त उत्तर वाले विकल्प चुनकर लिखिए : बाइबिल और दूसरे पावन ग्रंथों में नूह नाम के एक पैगंबर का ज़िक्र मिलता है। उनका असली नाम लशकर था, लेकिन अरब ने उनको नूह के लकब से याद किया है। वह इसलिए कि आप सारी उम्र रोते रहे। इसका कारण एक ज़ख्मी कुत्ता था। नूह के सामने से एक बार एक घायल कुत्ता गुज़रा। नूह ने उसे दुल्कारों हुए कहा, 'दूर हो जा गंदे कुत्ते । 'इस्लाम में कुत्तों को गंदा समझा जाता है। कुत्ते ने उनकी दुल्कार सुनकर जवाब दिया . . .-' न मैं अपनी मर्जी से कुत्ता हूँ, न तुम अपनी पसंद से इनसान हो। बनाने वाला सबका तो वही एक है।	5×1=5
(क)	'बाइबिल' को किस प्रकार का ग्रंथ माना जाता है? (i) पावन (ii)धार्मिक (iii) नीति (iv)न्याय	
(ख)	'अरब ने उनको नूह के लकब से याद किया है ।' इस पंक्ति में 'लकब' का क्या अर्थ है ? (i)नाम (ii)पदवी (iii)पैगंबर	

*कृपया ध्यान दें, शैक्षणिक सत्र 2024-25 की मूल्यांकन योजना वर्तमान सत्र अर्थात् 2025-26 में भी जारी रहेगी।

	(iv) ग्रंथ	
(ग)	पैगंबर से आप क्या समझते हैं? (i) धर्मगुरु (ii) धर्मसेवी (iii) धार्मिक (iv) धर्मप्रवर्तक	
(घ)	लशकर को नूह के नाम से क्यों याद करते हैं? (i) पाश्चाताप करने के कारण (ii) गलती का अहसास करने के कारण (iii) अफसोस में रोते रहने के कारण (iv) कुत्ते से नफरत करने के कारण	
(ङं)	निम्नलिखित कथन और कारण पर विचार करते हुए उपयुक्त विकल्प का चयन करके लिखिए : कथन - न मैं अपनी मर्जी से कुता हूँ, न तुम अपनी पसंद से इनसान हो। कारण - सबको बनाने वाला एक मात्र ईश्वर है। विकल्प - (i) कथन तथा कारण दोनों गलत हैं। (ii) कथन तथा कारण दोनों सही हैं। (iii) कथन गलत है तथा कारण सही है। (iv) कथन सही है तथा कारण गलत है।	
8	निर्धारित गद्य पाठों के आधार पर निम्नलिखित चार प्रश्नों में से <u>किन्हीं तीन प्रश्नों</u> के उत्तर लगभग 25-30 शब्दों में लिखिए :	3×2=6
(क)	बड़े भाई साहब के व्यक्तित्व की विशेषताओं के बारे में लिखिए।	
(ख)	26 जनवरी 1931 के दिन को अपूर्व दिन क्यों कहा गया है ? 'डायरी का एक पत्र' पाठ के आधार पर लिखिए।	
(ग)	तताँरा से निकोबारियों के प्रेम करने के कारणों को स्पष्ट कीजिए?	
(घ)	शैलेन्द्र कवि नहीं गीतकार थे, कैसे?	
9	निम्नलिखित पठित काव्यांश पर आधारित बहुविकल्पीय प्रश्नों के सर्वाधिक उपयुक्त उत्तर वाले विकल्प चुनकर लिखिए : पावस ऋतु थी, पर्वत प्रदेश, पल-पल परिवर्तित प्रकृति-वेश। मेखलाकार पर्वत अपार अपने सहस्र दग-सुमन फाड़, अवलोक रहा है बार-बार नीचे जल में निज महाकार, - जिसके चरणों में पला ताल दर्पण-सा फैला है विशाल।	5×1=5
(क)	काव्यांश में किस ऋतु की बात की गई है? (i) वर्षा (ii) ग्रीष्म	

*कृपया ध्यान दें, शैक्षणिक सत्र 2024-25 की मूल्यांकन योजना वर्तमान सत्र अर्थात् 2025-26 में भी जारी रहेगी।

	(iii) शरद (iv) शीत	
(ख)	तालाब की तुलना दर्पण से क्यों की गई है ? (i) विशाल होने से (ii) बड़ा होने से (iii) साफ़ और स्थिर होने से (iv) पारदर्शी होने से	
(ग)	प्रकृति के स्वरूप में पल-पल परिवर्तन क्यों हो रहा है ? (i) बादल के कारण (ii) वर्षा के कारण (iii) धूप के कारण (iv) वर्षा ऋतु के कारण	
(घ)	पर्वत बार-बार अपने को क्यों देख रहा है ? (i) सुंदर होने से (ii) फूल खिलने से (iii) अविश्वास के कारण (iv) उत्साहित होने से	
(ङ)	निम्नलिखित कथन और कारण पर विचार करते हुए उपयुक्त विकल्प का चयन करके लिखिए : कथन : पर्वत अपने रूप पर मुग्ध हो रहा है। कारण : नीचे जमे जल में स्वरूप दिखाई दे रहा है। विकल्प (i) कथन सही है, किंतु कारण गलत है। (ii) कथन गलत है, किंतु कारण सही है। (iii) कथन सही है और कारण कथन की सही व्याख्या है। (iv) कथन सही है किंतु कारण कथन की सही व्याख्या नहीं है।	
10	निर्धारित कविताओं के आधार पर निम्नलिखित चार प्रश्नों में से किन्हीं तीन प्रश्नों के उत्तर लगभग 25-30 शब्दों में लिखिए : (क) मीरा कृष्ण का चाकर क्यों बनना चाहती है ? (ख) कंपनी बाग में रखी तोप सैलानियों से क्या कहती है ? (ग) कवि कैफ़ी आज़मी ने जिन्दा रहने के समय से मौत के क्षण को अधिक महत्वपूर्ण क्यों माना है ? (घ) 'आत्मत्राण' कविता एक अलग भाव की कविता है, कैसे ?	3×2=6
11	पूरक पाठ्य पुस्तक 'संचयन' के निर्धारित पाठों पर आधारित निम्नलिखित तीन प्रश्नों में से किन्हीं दो प्रश्नों के उत्तर लगभग 40-50 शब्दों में लिखिए : (क) 'दोस्ती के लिए समान उम्र का होना आवश्यक नहीं होता' - इस कथन के पक्ष में 'हरिहर काका' पाठ के आधार पर विचार व्यक्त कीजिए। (ख) बच्चों की पढ़ाई को लेकर अभिभावक उदासीन थे - 'सपनों के-से दिन' पाठ के आधार पर कथन की समीक्षा कीजिए ? (ग) 'टोपी शुक्ला' की कहानी में इफ़फ़न की कहानी को जानना क्यों आवश्यक है ?	2×3=6

	खंड - घ (रचनात्मक लेखन)	22
12	<p>निम्नलिखित तीन विषयों में से किसी एक विषय पर संकेत बिन्दुओं के आधार पर लगभग 120 शब्दों में एक अनुच्छेद लिखिए :</p> <p>(क) पंचायती चुनाव</p> <ul style="list-style-type: none"> • पंचायत क्या है? • चुनाव की आवश्यकता एवं नाम? • ग्रामीण विकास में महत्व <p>(ख) स्वास्थ्य और मोटा अनाज</p> <ul style="list-style-type: none"> • स्वास्थ्य का महत्व • मोटा अनाज क्या है? • स्वस्थ रखने में भूमिका <p>(ग) महानगर में स्वच्छ हवा का संकट</p> <ul style="list-style-type: none"> • महानगर क्या है? • स्वच्छ हवा की आवश्यकता • स्वास्थ्य और जीवन पर प्रभाव 	$5 \times 1 = 5$
13	निम्नलिखित में से किसी एक विषय पर लगभग 100 शब्दों में एक औपचारिक पत्र लिखिए -	$5 \times 1 = 5$
(क)	आप भरत/भारती हैं। विद्यालय में 'भाषा क्लब' बनाने के लिए प्रधानाचार्य को पत्र लिखिए।	
(ख)	आप हरियाणा के रोहतक जिले के सामना गाँव के निवासी हैं। गाँव के लोग स्वच्छता के संदर्भ में सभा करने वाले हैं। इसकी जानकारी देते हुए किसी राष्ट्रीय दैनिक समाचार पत्र के संपादक को पत्र लिखिए।	
14	निम्नलिखित में से किसी एक विषय पर लगभग 60 शब्दों में सूचना लिखिए :	$4 \times 1 = 4$
(क)	आप अनुभव/अनुभा हैं। आप अपने स्कूल के 'हिन्दी भाषा विकास मंच' के सचिव हैं। आपके स्कूल में अन्तर्विद्यालयी 'भाषण प्रतियोगिता' का आयोजन किया जा रहा है। सभी विद्यार्थियों को सूचित करने के लिए एक सूचना तैयार कीजिए।	
(ख)	आप सर्वोदय सोसाइटी के सचिव हैं। आपकी सोसाइटी में एक सप्ताह तक गंगा जल की आपूर्ति बाधित रहेगी। इसकी जानकारी देते हुए एक सूचना लिखिए।	
15	निम्नलिखित में से किसी एक विषय पर लगभग 40 शब्दों में आकर्षक विज्ञापन तैयार कीजिए :	$3 \times 1 = 3$
(क)	आपसे 'अवनी प्रकाशन' के प्रबंधक ने एक विज्ञापन बनाने के लिए आग्रह किया है। आप इस प्रकाशन के लिए एक आकर्षक विज्ञापन तैयार कीजिए।	
(ख)	एन.एच.-24 सड़क अब लाल बत्ती से मुक्त हो गई है। दिल्ली से मेरठ तक यात्रा बिना रुके पूरी की जा सकती है। आम जनता को इसकी जानकारी देते हुए एक आकर्षक विज्ञापन तैयार कीजिए।	
16	<p>(क) मैं अपने घर की बालकनी में बैठा चाय पी रहा था कि अचानक तेज हवाएं चलने लगी - ----- पंक्ति से लगभग 100 शब्दों में लघुकथा लिखिए।</p> <p style="text-align: center;">अथवा</p> <p>(ख) आप कार्तिक / कृतिका हैं। आपको उच्च शिक्षा के लिए 'शिक्षा-लोन' की आवश्यकता</p>	$5 \times 1 = 5$

है। स्टेट बैंक ऑफ इंडिया के प्रबंधक को लगभग 80 शब्दों में ई-मेल लिखकर लोनके लिए आवेदन कीजिए ?

अवधि: - होरात्रयम्

पूर्णाङ्कः - 80

सामान्यनिर्देशाः -

- कृपया सम्यक्तया परीक्षणं कुर्वन्तु यत् अस्मिन् प्रश्नपत्रे 10 पृष्ठानि मुद्रितानि सन्ति ।
- कृपया सम्यक्तया परीक्षणं कुर्वन्तु यत् अस्मिन् प्रश्नपत्रे 18 प्रश्नाः सन्ति ।
- अस्मिन् प्रश्नपत्रे चत्वारः भागाः सन्ति-

‘क’ भागः	:	अपठितावबोधनम्	10 अङ्काः
‘ख’ भागः	:	रचनात्मककार्यम्	15 अङ्काः
‘ग’ भागः	:	अनुप्रयुक्तव्याकरणम्	25 अङ्काः
‘घ’ भागः	:	पठितावबोधनम्	30 अङ्काः

- प्रत्येकं भागम् अधिकृत्य उत्तराणि एकस्मिन् स्थाने क्रमेण लेखनीयानि ।
- उत्तरलेखनात् पूर्वं प्रश्नस्य क्रमाङ्कः अवश्यं लेखनीयः ।
- प्रश्नस्य क्रमाङ्कः प्रश्नपत्रानुसारम् एव लेखनीयः ।
- सर्वेषां प्रश्नानाम् उत्तराणि संस्कृतेन लेखनीयानि ।
- प्रश्नानां निर्देशाः ध्यानेन अवश्यं पठनीयाः ।

‘क’ भागः

अपठितावबोधनम्

(10 अङ्काः)

1.	<p>अधोलिखितं गद्यांशं पठित्वा प्रदत्तप्रश्नानाम् उत्तराणि संस्कृतेन लिखत -</p> <p>अयं संसारः जनानां कर्मभूमिः अस्ति । अस्मिन् संसारे यावन्तः जनाः जन्म गृह्णन्ति, तेषां पृथक् पृथक् कर्तव्यानि भवन्ति । एतानि कर्तव्यानि अनेकविधानि भवन्ति । कानिचिद् व्यक्तिगतानि कानिचित् पारिवारिकाणि, कानिचित् सामाजिकाणि । कानिचित् नियानि भवन्ति कानिचित् च नैमित्तिकाणि । एतेषां सर्वेषां कर्तव्यानां पालनं मनुष्यस्य व्यक्तिगतहिताय देशहिताय च परमावश्यकं भवति । परमद्य जनेषु कर्तव्यपालनं प्रति न कापि निष्ठा । कोऽपि श्रमेण सत्यतया निष्ठया च कार्यं कर्तुं न वाञ्छति । अल्पेन एव प्रयासेन ते कार्यसिद्धिम् इच्छन्ति । ते केवलं स्वार्थपूर्ति कर्तुम् इच्छन्ति । अधिकाराय तु सर्वे प्रयत्ने परं कर्तव्यं प्रति कोऽपि ध्यानं न ददाति । सत्यमेतद् यावद् वयं परिश्रमपूर्वकं श्रद्धापूर्वकं च स्वकर्तव्यानि न पालयामः तावद् देशस्य समाजस्य च उन्नतिः भवितुं न अर्हति । कर्तव्यपालनम् एव आत्मना देशस्य च उन्नतेः मूलमन्त्रोऽस्ति ।</p> <p>अ. एकपदेन उत्तरत - (केवलं प्रश्नद्वयम्)</p>	10
----	--	----

2x1=2

	<p>(i) अयं संसारः केषां कर्मभूमिः अस्ति?</p> <p>(ii) उन्नतेः मूलमन्त्रं किम् अस्ति?</p> <p>(iii) जनाः किं विहाय केवलम् अधिकाराय प्रयतन्ते?</p> <p>आ. पूर्णवाक्येन उत्तरत - (केवलं प्रश्नद्वयम्)</p> <p>(i) देशस्य उन्नतिः कदा भवितुम् अर्हति?</p> <p>(ii) कर्तव्यपालनं किमर्थम् आवश्यकम्?</p> <p>(iii) अद्यत्वे जनाः कथं कार्यसिद्धिम् इच्छन्ति?</p> <p>इ. अस्य अनुच्छेदस्य कृते उपयुक्तं शीर्षकं संस्कृतेन लिखत ।</p> <p>ई. यथानिर्देशम् उत्तरत -</p> <p>(i) 'अयं संसारः कर्मभूमिः अस्ति ।' अस्मिन् वाक्ये क्रियापदं किम्?</p> <p>(क) अयम् (ख) संसारः</p> <p>(ग) कर्मभूमिः (घ) अस्ति</p> <p>(ii) 'प्रयत्नं कुर्वन्ति' एतदर्थं किं क्रियापदं गद्यांशे प्रयुक्तम्?</p> <p>(क) प्रयतन्ते (ख) अर्हति</p> <p>(ग) इच्छन्ति (घ) भवन्ति</p> <p>(iii) 'प्रयासेन' इति पदस्य किं विशेषणपदं गद्यांशे प्रयुक्तम्?</p> <p>(क) निष्ठा (ख) अल्पेन</p> <p>(ग) सत्यता (घ) श्रमेण</p>	2×2=4
--	--	-------

‘ख’ भागः

रचनात्मकं कार्यम् (15 अङ्काः)

2.	<p>भवत्याः नाम शर्वाणी । भवत्याः सखी प्रज्ज्वला संस्कृतं पठितुं भवत्याः परामर्शं वाच्छति । तां प्रेरयितुं लिखितं पत्रं मञ्जूषायां प्रदत्तपदानां सहायतया पूरयित्वा पत्रम् उत्तरपुस्तिकायां लिखतु - डी-401, जनकपुरी</p> <p>(i) -----</p> <p>दिनाङ्कः -----</p> <p>प्रिय (ii) -----</p> <p>सस्नेहं नमस्ते ।</p> <p>अत्र कुशलं तत्रास्तु । आशासे त्वम् अपि कुशलिनी स्यात् । भवत्याः पत्रं प्राप्तम् । भवती संस्कृतभाषां पठितुम् इच्छति (iii) ----- पठित्वा मम प्रसन्नतायाः सीमा नास्ति । एषा भाषा सर्वाधिका (iv) ----- अस्ति । संस्कृतम् अस्माकं देशस्य प्रतिष्ठा वर्तते । वेदाः, उपनिषदः, रामायणं, महाभारतं, पुराणानि, महाकाव्यानि, कथासाहित्यम् इत्यादिकं सर्वं (v) ----- अत्यन्तं मार्गदर्शकं, ज्ञानवर्धकं प्रेरणाप्रदं च अस्ति । यथा पुष्टेभ्यः सुगन्धः पृथक् कर्तुं न शक्यते तथैव भारतीयसंस्कृतेः संस्कृतभाषां पृथक् (vi) ----- न शक्यते । संस्कृतेन सम्भाषणम् अस्माकं हृदयेषु (vii) ----- वर्धयति हीनभावनां च नाशयति । अतः त्वम् अवश्यं</p>	10×½=5
----	---	--------

	<p>(viii) ----- पठ, पठित्वा च अस्याः भाषायाः (ix) ----- कुरु । एवं वयं भारतमातुः सेवां कृत्वा धन्याः भवामः । सर्वेभ्यः अग्रजेभ्यः मम प्रणामाः अनुजेभ्यः च आशीर्वादाः । भवत्याः सखी,</p> <p>(x) -----</p> <p style="text-align: center;">मञ्जूषा</p> <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p>वैज्ञानिकी, प्रचारम्, वाङ्मयम्, प्रज्ज्वले, कर्तुम्, शर्वाणी, इति, गौरवम्, संस्कृतम्, नवदिल्लीतः ।</p> </div>	
3. अ	<p>प्रदत्तं चित्रं हष्ट्वा मञ्जूषायां प्रदत्तशब्दानां सहायतया पञ्च वाक्यानि संस्कृतेन लिखत -</p>  <p style="text-align: center;">मञ्जूषा</p> <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p>निर्वाचनम्, मतदानकेन्द्रम्, पड़िक्तबद्धाः, महिलाः, ग्रामीणाः, हस्तेषु परिचयपत्राणि, अधिकारः, जनप्रतिनिधिः, वृक्षाः, प्रतीक्षां कुर्वन्ति ।</p> </div> <p style="text-align: center;">अथवा</p> <p>आ मञ्जूषाप्रदत्तशब्दानां साहाय्येन निम्नलिखितं विषयम् अधिकृत्य पञ्चभिः संस्कृतवाक्यैः एकम् अनुच्छेदं लिखत -</p> <p style="text-align: center;">“बालश्रमः”</p> <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p>जलपानगृहेषु, भोजनालयेषु, उद्योगेषु, बालकाः, शिक्षातः, क्रीडनात्, वञ्चिताः, जनाः, ग्रामेभ्यः, आगच्छन्ति, अपि, धनप्राप्त्यर्थम्, कुर्वन्ति, संविधानम्, नियमः ।</p> </div>	5×1=5
4. अ	<p>मञ्जूषाप्रदत्तपदैः रिक्तस्थानानि पूरयित्वा अधोलिखितसंवादं पुनः लिखत-</p> <p>छात्राः - (i) -----</p> <p>आचार्यः - स्वस्ति, यशस्विनः भवत ।</p> <p>आरुषः - मया श्रुतं यत् श्वः आरभ्य सद्यस्कमाध्यमेन (ऑनलाइन) कक्षा भविष्यति, किमर्थम्?</p> <p>आचार्यः - (ii) -----</p>	5×1=5

मोहितः - अस्माकं कक्षाध्यापिका चर्चायां सामान्यरूपेण अकथयत् यत् कदाचित् श्वः आरभ्यः
गृहात् एव कक्षा स्वीकरणीया भवेत् इति ।

आचार्यः - भवतां कक्षाध्यापिका सम्यक् सूचितवती । ह्यः वायुगुणवत्ता-सूचकाङ्क्षः महतीं वृद्धिं
प्राप्नोत् तस्मात् सर्वकारः जनानां स्वास्थ्यरक्षणाय सद्यस्कमाध्यमेन गृहात् एव पठितुं
कार्यं कर्तुं च निर्देशम् अयच्छत् ।

नव्या - (iii) -----

आचार्यः - सत्यं कथयति, वयं शिक्षकाः अपि साक्षात् कक्षायाम् आगत्य पाठयितुम् इच्छामः ।

भूमिका - (iv) -----

आचार्यः - इदानीं तु ईश्वरः एव जानीयात् । यदा प्रदूषणस्य निवारणाय प्रकृतेः च संरक्षणाय वयं
जागरूकाः भविष्यामः तदा एव अग्रे एतादृशी विकटा स्थितिः नैव आगमिष्यति ।

छात्राः - वयं प्रणं कुर्मः यत् वयं पर्यावरण-रक्षणाय निरन्तरं प्रयासरताः भविष्यामः ।

आचार्यः - (v) -----

मञ्जूषा

- (i) महोदय! गृहे मनः न रमते, अत्रैव वयं पठने आनन्दम् अनुभवामः ।
- (ii) सत्यं, तदैव इयं वसुन्धरा सुरक्षिता भविष्यति ।
- (iii) भवन्तं कः असूचयत्?
- (iv) आचार्य! प्रणमामः ।
- (v) पुनः कदा विद्यालये एव कक्षा भविष्यति?

अथवा

आ

मञ्जूषायाः सहायतया अधोलिखितां कथां पूरयित्वा पुनः लिखत-

10x1/2=5

एकः मृत्तिका-घटः आसीत् । (i) ----- उपरि स्थितः शरावः यः घटस्य मुखम् आच्छादयति
सः एकदा घटम् अपृच्छत् - मित्र घट! मम (ii) ----- एकः प्रश्नः अस्ति । इदानीं
(iii) ----- अस्ति । यत् किमपि पात्रं यदा भवतः समीपम् आगच्छति तदा भवान् तत्पात्रं
(iv) ----- जलेन परिपूर्यति । तानि सर्वाणि पात्राणि जलं स्वीकृत्य तृप्तानि भवन्ति । भवन्तम्
एकाकिनं विहाय दूरं गच्छन्ति । (v) ----- स्वार्थपरायणानि सन्ति, तथापि भवान् तेभ्यः
शीतलं जलं प्रदाय तेषु (vi) ----- करोति । अहं सर्वदा भवता सह एव तिष्ठामि कदापि भवन्तं
(vii) ----- कुत्रापि न गच्छामि परन्तु भवान् मह्यं कदापि बिन्दुमितम् अपि जलं न यच्छति,
किमर्थम्? तदा स्मितं कुर्वन् घटः (viii) ----- अवदत् - एतस्य कारणं भवतः प्रकृतिः
अस्ति । तानि सर्वाणि पात्राणि शिरः अवनम्य जलं याचन्ते अहज्ज्व तेषाम् इच्छां पूरयामि परं भवान्
तु सर्वदा मम (ix) ----- एव तिष्ठति तर्हि कथम् अहं भवते जलं दद्याम्? भवान् अपि शिरः
अवनम्य (x) ----- याचनां करोतु अहं भवन्तम् अपि निराशं न करिष्यामि ।

मञ्जूषा

त्यक्त्वा, घर्मकालः, शिरसि, शीतलेन, मनसि, अनुग्रहम्, घटस्य, मन्दस्वरेण, तानि, जलार्थम् ।

‘ग’ भागः

अनुप्रयुक्तव्याकरणम्

(25 अङ्काः)

5. अ	<p>अधोलिखितवाक्येषु रेखाङ्कितपदेषु सन्धिं सन्धिच्छेदं वा कुरुत-</p> <p>(i) स्वाध्यायाभ्यसनं चैव वाङ्मयं <u>तपः</u> + उच्यते । (ii) राज्ञः स्वस्य <u>गात्रेष्वपि</u> निरासकिं विज्ञाय सकलं ब्रह्माण्डं व्याकुलं सञ्जातम् । (iii) मधुमासे कोकिलः <u>पं + चम</u> -स्वरेण गायति । (iv) विषयान् ध्यायतः पुंसः <u>सङ्गस्तेषु</u> उपजायते ।</p> <p style="text-align: center;">अथवा</p> <p>अधोलिखितवाक्येषु रेखाङ्कितपदेषु सन्धिं सन्धिच्छेदं वा कुरुत-</p> <p>(i) तेषु <u>केचित् + दग्धाः</u>, केचिद् अर्धदग्धाः केचन च पञ्चत्वं गताः । (ii) अये कथं श्रीकृष्णार्जुनौ <u>युधिष्ठिरश्च?</u> (iii) मनसः निग्रहम् अहं <u>वायोः</u> + इव सुदुष्करं मन्ये । (iv) सुस्वागतं भोः <u>अरुणाचलेऽस्मिन्</u> ।</p>	4×1=4																
6.	<p>अधोलिखितवाक्येषु रेखाङ्कितपदानां समस्तपदं विग्रहं वा प्रदत्तविकल्पेभ्यः चित्वा लिखत -</p> <p>(i) पञ्चशतानां बौधभिक्षूणां <u>निवासयोग्या</u> स्थली इयम् ।</p> <table> <tr> <td>(क) निवासं योग्या</td> <td>(ख) निवासस्य योग्या</td> </tr> <tr> <td>(ग) निवासेन योग्या</td> <td>(घ) निवासाय योग्या</td> </tr> </table> <p>(ii) कलशपातशब्देन प्रबुद्धौ तौ <u>जाया च पतिः च</u> आश्चर्यचकितौ आस्ताम् ।</p> <table> <tr> <td>(क) जायापती</td> <td>(ख) जायापतिः</td> </tr> <tr> <td>(ग) दम्पती</td> <td>(घ) दमपतिः</td> </tr> </table> <p>(iii) प्रकृतिमाता <u>सस्नेहं</u> सर्वान् बोधयति ।</p> <table> <tr> <td>(क) स्नेहम् अनतिक्रम्य</td> <td>(ख) स्नेहेन सहितम्</td> </tr> <tr> <td>(ग) स्नेहस्य अभावः</td> <td>(घ) स्नेहस्य योग्यम्</td> </tr> </table> <p>(iv) पितुः उपदेशेन <u>न सन्तुष्टः</u> सः एकदा द्वारिकापुरीम् आगच्छत् ।</p> <table> <tr> <td>(क) असन्तुष्टः</td> <td>(ख) अनुसन्तुष्टः</td> </tr> <tr> <td>(ग) सन्तोषसहितः</td> <td>(घ) नसन्तुष्टः</td> </tr> </table>	(क) निवासं योग्या	(ख) निवासस्य योग्या	(ग) निवासेन योग्या	(घ) निवासाय योग्या	(क) जायापती	(ख) जायापतिः	(ग) दम्पती	(घ) दमपतिः	(क) स्नेहम् अनतिक्रम्य	(ख) स्नेहेन सहितम्	(ग) स्नेहस्य अभावः	(घ) स्नेहस्य योग्यम्	(क) असन्तुष्टः	(ख) अनुसन्तुष्टः	(ग) सन्तोषसहितः	(घ) नसन्तुष्टः	4×1=4
(क) निवासं योग्या	(ख) निवासस्य योग्या																	
(ग) निवासेन योग्या	(घ) निवासाय योग्या																	
(क) जायापती	(ख) जायापतिः																	
(ग) दम्पती	(घ) दमपतिः																	
(क) स्नेहम् अनतिक्रम्य	(ख) स्नेहेन सहितम्																	
(ग) स्नेहस्य अभावः	(घ) स्नेहस्य योग्यम्																	
(क) असन्तुष्टः	(ख) अनुसन्तुष्टः																	
(ग) सन्तोषसहितः	(घ) नसन्तुष्टः																	
7.	<p>अधोलिखितवाक्येषु रेखाङ्कितपदानां प्रकृति-प्रत्ययौ संयोज्य विभज्य वा उचितम् उत्तरं विकल्पेभ्यः चित्वा लिखत -</p> <p>(i) भवतः <u>दानवीर + तल्</u> आकर्ण्य आशान्वितः भवत्समीपम् आगतोऽस्मि ।</p>	4×1=4																

	<p>(क) दानवीरताम् (ग) दानवीरत्वम्</p> <p>(ii) कथं <u>मन्दभाग्या</u> अहं धैर्यं धारयामि । (क) मन्दभाग्य + तल् (ग) मन्दभाग्य + टाप्</p> <p>(iii) अत्र अनेकानि <u>दर्शनीयानि</u> स्थलानि सन्ति । (क) दृश् + तव्यत् (ग) दृश् + मतुप्</p> <p>(iv) एकदा <u>भगवान्</u> बोधिसत्त्वः शिवीनां राजा अभवत् । (क) भग + टाप् (ग) भग + तल्</p>	<p>(ख) दानवीरता (घ) दानवीरा</p> <p>(ख) मन्दभाग्य + त्व (घ) मन्दभाग्य + ठक्</p> <p>(ख) दृश् + अनीयर् (घ) दृश् + ठक्</p> <p>(ख) भग + ठक् (घ) भग + मतुप्</p>	
8. अ	<p>वाच्यानुसारं मञ्जूषायाः उचितपदैः रिक्तस्थानानि पूरयित्वा अधोलिखितं संवादं पुनः लिखत - माहिका - भूमिके! (i) ----- किं लिखसि?</p> <p>भूमिका - माहिके! मया श्लोकाः लिख्यन्ते ।</p> <p>माहिका - त्वं कान् (ii) ----- लिखसि ?</p> <p>भूमिका - मया नीतिश्लोकाः लिख्यन्ते । त्वया अधुना किं (iii) -----?</p> <p>माहिका - अहं संस्कृतकथां पठामि ।</p>	3x1=3	
आ	<p style="text-align: center;">मञ्जूषा</p> <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p>श्लोकान्, क्रियते, त्वम् ।</p> </div> <p style="text-align: center;">अथवा</p> <p>वाच्यानुसारम् उचितपदैः रिक्तस्थानानि पूरयित्वा वाक्यानि पुनः लिखत -</p> <p>(i) पिता पुत्राय क्रीडनकं (दा) ----- ।</p> <p>(ii) शताक्ष्या ----- (गीत) श्रूयन्ते ।</p> <p>(iii) ----- (अध्यापक) छात्राः पाठ्यन्ते ।</p>		
9.	<p>कालबोधकशब्दैः अधोलिखित-दिनचर्यां पूरयत-</p> <p>(i) सुखदः ----- (5:30) वादने धावनाय बहिः गच्छति ।</p> <p>(ii) नव्या रात्रौ ----- (12:15) वादनपर्यन्तं गृहपाठम् अकरोत् ।</p> <p>(iii) रुचिरा सायं ----- (6:45) वादने मन्दिरं गच्छति ।</p>	3x1=3	
10.	<p>मञ्जूषायां प्रदत्तैः उचितैः अव्ययपदैः अधोलिखितवाक्येषु रिक्तस्थानानि पूरयत -</p> <p>(i) ----- मधुरभाषणी वाणी पुरुषं प्रह्लादयति तथा चन्दनरसः न प्रह्लादयति ।</p> <p>(ii) चञ्चलं मनः अभ्यासेन वैराग्येण ----- गृह्यते ।</p> <p>(iii) आचारः प्रथमो धर्मः ----- एतत् विदुषां वचः ।</p>	4x1=4	

	<p>(iv) अहं ----- वनं गच्छामि ।</p> <p style="text-align: center;">मञ्जूषा</p> <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p>इति, तु, च, यथा ।</p> </div>													
11.	<p>अधोलिखितवाक्येषु रेखांकित-अशुद्धपदाय उचितपदं चित्वा वाक्यानि पुनः लिखत -</p> <p>(i) अस्मिन् प्रदेशे पञ्चाशदधिकाः नद्यः <u>प्रवहति</u> ।</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">(क) प्रवहसि</td> <td style="width: 50%;">(ख) प्रवहतः</td> </tr> <tr> <td>(ग) प्रवहन्ति</td> <td>(घ) प्रवहामि</td> </tr> </table> <p>(ii) इन्द्रस्य प्रभावेण राज्ञः सत्यपुण्यबलेन एकं चक्षुः <u>प्रतिष्ठितः</u> अभवत् ।</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">(क) प्रतिष्ठिता</td> <td style="width: 50%;">(ख) प्रतिष्ठितम्</td> </tr> <tr> <td>(ग) प्रतिष्ठिताः</td> <td>(घ) प्रतिष्ठितानि</td> </tr> </table> <p>(iii) तर्हि न जानासि <u>भवान्</u> तस्य मनोवृत्तिम् ।</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">(क) त्वम्</td> <td style="width: 50%;">(ख) भवन्तः</td> </tr> <tr> <td>(ग) युवाम्</td> <td>(घ) भवन्तौ</td> </tr> </table>	(क) प्रवहसि	(ख) प्रवहतः	(ग) प्रवहन्ति	(घ) प्रवहामि	(क) प्रतिष्ठिता	(ख) प्रतिष्ठितम्	(ग) प्रतिष्ठिताः	(घ) प्रतिष्ठितानि	(क) त्वम्	(ख) भवन्तः	(ग) युवाम्	(घ) भवन्तौ	3×1=3
(क) प्रवहसि	(ख) प्रवहतः													
(ग) प्रवहन्ति	(घ) प्रवहामि													
(क) प्रतिष्ठिता	(ख) प्रतिष्ठितम्													
(ग) प्रतिष्ठिताः	(घ) प्रतिष्ठितानि													
(क) त्वम्	(ख) भवन्तः													
(ग) युवाम्	(घ) भवन्तौ													

‘घ’ भागः

पठितावबोधनम्

(30 अङ्काः)

<p>12. अधोलिखितं गद्यांशं पठित्वा प्रदत्तप्रश्नानाम् उत्तराणि संस्कृतेन लिखत -</p> <p>अस्ति कर्मपुरनाम्नि नगरे प्रच्छन्नभाग्य-नामधेयः कश्चित् कुमारः । बाल्ये वयसि विद्यापराङ्मुखः स केनचित् दुष्टबुद्धिनाम्ना चौरेण सह चौर्यकर्मणि निरतः सञ्जातः । एकदा स दुष्टबुद्धिना सार्धं कस्यचित् श्रेष्ठिनः गेहे धनहरणार्थं ग्रामान्तरं प्रस्थितः ।</p> <p>अथ व्रजन्तौ तौ गर्तसङ्कुले मार्गे क्रीडतः कांश्चित् बालकान् प्रेक्ष्य अवदताम् - भो भो बालकाः ! कथमत्र नतोन्नते विषमे मार्गे क्रीडथ ? यदि कश्चित् गर्ते पतेत् तर्हि स विकलाङ्गो भूत्वा चिरं क्लेशम् अनुभवेत् । तच्छुत्वा तेषु कश्चित् उद्दण्डः बालकः उवाच - अयि भो ! यद्येवं तर्हि कथं भवन्तौ सुपर्थं परित्यज्य अनेन कुपथेन गन्तुं प्रवृत्तौ ? अपि इदं श्रेयस्करम् ?</p> <p>I. एकपदेन उत्तरत - (केवलं प्रश्नद्वयम्) 2×½=1</p> <ul style="list-style-type: none"> (i) कुत्र प्रच्छन्नभाग्य-नामधेयः कश्चित् कुमारः आसीत्? (ii) प्रच्छन्नभाग्यः केन सार्धं धनहरणार्थं ग्रामान्तरं प्रस्थितः? (iii) कीदृशः बालकः उवाच? <p>II. पूर्णवाक्येन उत्तरत - (केवलं प्रश्नद्वयम्) 2×1=2</p> <ul style="list-style-type: none"> (i) उद्दण्डः बालकः किम् अकथयत्? (ii) अथ व्रजन्तौ तौ मार्गे क्रीडतः बालकान् दृष्ट्वा किम् अवदताम्? (iii) प्रच्छन्नभाग्यः कदा केन सह च चौर्यकर्मणि निरतः सञ्जातः? 	<p>5</p>
---	----------

	<p>III. (अ) निर्देशानुसारम् उत्तरत -</p> <p>(i) 'कश्चित् उद्दण्डः बालकः उवाच ।' अत्र किं कर्तृपदम् अस्ति?</p> <p>(ii) 'स विकलाङ्गो भूत्वा चिरं क्लेशम् अनुभवेत् ।' अत्र क्रियापदं किम्?</p> <p style="text-align: center;">अथवा</p> <p>(आ) निर्देशानुसारम् उत्तरत -</p> <p>(i) 'त्यक्त्वा' इत्यस्य किं पर्यायपदं गद्यांशे प्रयुक्तम्?</p> <p>(ii) 'विषमे' इत्यस्य विशेष्यपदं गद्यांशात् चित्वा लिखत ।</p>	2×1=2
13.	<p>अधोलिखितपदे पठित्वा प्रदत्तप्रश्नानाम् उत्तराणि संस्कृतेन लिखत -</p> <p>अवक्रता यथा चित्ते तथा वाचि भवेद् यदि । तदेवाहुः महात्मानः समत्वमिति तथ्यतः ॥ आचारः प्रथमो धर्मः इत्येतद् विदुषां वचः । तस्माद् रक्षेत् सदाचारं प्राणेभ्योऽपि विशेषतः ॥</p> <p>I. एकपदेन उत्तरत - (केवलं प्रश्नद्वयम्)</p> <p>(i) चित्ते तथा वाचि किं भवेत्?</p> <p>(ii) कः प्रथमो धर्मः?</p> <p>(iii) किं प्राणेभ्योऽपि विशेषतः रक्षेत्?</p> <p>II. पूर्णवाक्येन उत्तरत - (केवलं प्रश्नद्वयम्)</p> <p>(i) विदुषां किं वचः?</p> <p>(ii) समत्वं किं भवति?</p> <p>(iii) सदाचारं कथं रक्षेत्?</p> <p>III. (अ) निर्देशानुसारम् उत्तरत -</p> <p>(i) “तदेवाहुः महात्मानः समत्वमिति तथ्यतः ।” अत्र वाक्ये क्रियापदं किम्?</p> <p>(ii) 'सरलता' इत्यस्य किं समानार्थकं पदं प्रयुक्तम्?</p> <p style="text-align: center;">अथवा</p> <p>(आ) निर्देशानुसारम् उत्तरत -</p> <p>(i) 'प्रथमो धर्मः' इत्यनयोः विशेषणपदं चित्वा लिखत ।</p> <p>(ii) 'वाण्याम्' इत्यस्य पर्यायपदं लिखत ।</p>	5 2×½=1
	<p>अधोलिखितं नाट्यांशं पठित्वा प्रदत्तप्रश्नानाम् उत्तराणि संस्कृतेन लिखत -</p> <p>[स्थानम् - सरस्तीरम् । समयः प्रभातवेला । तत्र राजहंसः हंसी च विहरतः । नेपथ्ये काकध्वनिः श्रूयते ।]</p> <p>राजहंसः - अये! किन्तु खलु सरस्तीरे विहरति मयि केनापि कर्कशैः 'का का' शब्दैः वातावरणम् आकुलीक्रियते?</p> <p>राजहंसी - भर्ता! काकात् अन्यः को भवितुमर्हति? अस्य वर्णः अपि कृष्णः, कर्म अपि कृष्णम्। मेध्यम् अमेध्यं सर्वमेव भक्षयति । कर्णकटुशब्दैः</p>	2×1=2
14.	<p>अधोलिखितं नाट्यांशं पठित्वा प्रदत्तप्रश्नानाम् उत्तराणि संस्कृतेन लिखत -</p> <p>[स्थानम् - सरस्तीरम् । समयः प्रभातवेला । तत्र राजहंसः हंसी च विहरतः । नेपथ्ये काकध्वनिः श्रूयते ।]</p> <p>राजहंसः - अये! किन्तु खलु सरस्तीरे विहरति मयि केनापि कर्कशैः 'का का' शब्दैः वातावरणम् आकुलीक्रियते?</p> <p>राजहंसी - भर्ता! काकात् अन्यः को भवितुमर्हति? अस्य वर्णः अपि कृष्णः, कर्म अपि कृष्णम्। मेध्यम् अमेध्यं सर्वमेव भक्षयति । कर्णकटुशब्दैः</p>	5

<p>काकः - (प्रविश्य सक्रोधम्) आः किम् उक्तवती भवती ? यदि अहं कृष्णवर्णः तर्हि श्रीरामस्य वर्णः कीदृशः ? श्रीवासुदेवस्य वर्णः कीदृशः ? मुग्धे अहं तु अतीव कर्तव्यपरायणः । प्रभाते 'का का' ध्वनिना सुप्तान् प्रबोधयामि कर्मसु च विनियोजयामि ।</p> <p>राजहंसः - हुं! किमनेन? एतत् कार्यं तु कुकुटोऽपि करोति ।</p> <p>काकः - (विहस्य) कुकुटः! अरे अद्य कुतः कुकुटाः नगरेषु । अहमेव सर्वत्र सुलभः ।</p> <p>I. एकपदेन उत्तरत - (केवलं प्रश्नद्वयम्)</p> <ul style="list-style-type: none"> (i) कर्तव्यपरायणः कः अस्ति? (ii) काकस्य वर्णः कीदृशः अस्ति? (iii) काकध्वनिः कुत्र श्रूयते? <p>II. पूर्णवाक्येन उत्तरत - (केवलं प्रश्नद्वयम्)</p> <ul style="list-style-type: none"> (i) राजहंसः राजहंसीं किं पृच्छति? (ii) काकः सक्रोधं किं वदति? (iii) राजहंसी भर्तरं किम् उत्तरति? <p>III. (अ) निर्देशानुसारम् उत्तरत - (केवलं प्रश्नद्वयम्)</p> <ul style="list-style-type: none"> (i) 'पवित्रम्' इत्यस्य किं पर्यायपदम् अत्र प्रयुक्तम्? (ii) 'करोति' इति क्रियापदस्य कर्तृपदं किम् अत्र प्रयुक्तम्? <p style="text-align: center;">अथवा</p> <p>(आ) निर्देशानुसारम् उत्तरत -</p> <ul style="list-style-type: none"> (i) 'वर्णः कृष्णः' इत्यनयोः पदयोः विशेष्यपदं चित्वा लिखत । (ii) 'एतत् कार्यं तु कुकुटोऽपि करोति' अस्मिन् वाक्ये क्रियापदं किम्? 	<p>2×½=1</p> <p>2×1=2</p> <p>2×1=2</p>
<p>15. रेखांकित-पदानि आधृत्य प्रश्ननिर्माणं कुरुत -</p> <ul style="list-style-type: none"> (i) <u>अनुद्वेगकरं</u> वाक्यं वाङ्मयं तपः उच्यते । (ii) कामः एव <u>अस्माकं</u> शत्रुः । (iii) गगनात् सहस्रशः <u>उल्काः</u> भूमौ पतन्ति । (iv) अरुणाचलप्रदेशे अनेके <u>उत्सवाः</u> मान्यन्ते । (v) <u>दानशालासु</u> विचरन् राजा अचिन्तयत् । 	<p>5×1=5</p>
<p>16.अ मञ्जूषातः समुचितपदानि चित्वा अधोलिखित-श्लोकस्य अन्वयं पूरयित्वा पुनः लिखत -</p> <p style="text-align: center;">शुश्रूषा श्रवणं चैव ग्रहणं धारणं तथा । ऊहापोहार्थविज्ञानं तत्त्वज्ञानं च धीगुणाः ॥</p> <p>अन्वयः - शुश्रूषा (i) ----- च एव, ग्रहणम् तथा (ii) -----, ऊह-अपोह-अर्थविज्ञानम्, (iii) ----- च (iv) ----- (सन्ति) ।</p> <p style="text-align: center;">मञ्जूषा - तत्त्वज्ञानम्, श्रवणम्, धीगुणाः, धारणम् ।</p> <p style="text-align: center;">अथवा</p>	<p>4×½=2</p>

आ	<p>मञ्जूषायाः साहाय्येन श्लोकस्य भावार्थे रिक्तस्थानानि पूरयित्वा पुनः लिखत -</p> <p>असंशयं महाबाहो ! मनो दुर्निग्रहं चलम् ।</p> <p>अभ्यासेन तु कौन्तेय ! वैराग्येण च गृह्णते ॥</p> <p>भावार्थः- हे महाबाहो! अत्र संशयः नास्ति यत् एतत् (i) ----- अतीव चञ्चलम् अस्ति । इदं (ii) नियन्त्रितं भवति परन्तु यदि वयं पुनः पुनः (iii) ----- कुर्मः, विरक्ताः च भवामः तदा निश्चयेन एतत् वशीकर्तु (iv) ----- ।</p> <p>मञ्जूषा - बहुकष्टेन, अभ्यासम्, शक्तुमः, मनः ।</p>	
17.	<p>अधोलिखितवाक्येषु रेखाङ्कितपदानां प्रसङ्गानुकूलम् उचितार्थं चित्वा लिखत-</p> <p>(i) वनौषधीनां तु अयं <u>स्रोतः</u> एव । (क) प्रवाहः (ख) निर्झरः (ग) उद्गमस्थलम् (घ) प्रकारः</p> <p>(ii) पवनः <u>स्तब्धः</u> जातः । (क) स्वच्छः (ख) आरब्धः (ग) प्रदूषितः (घ) स्थगितः</p> <p>(iii) शिष्यः आचार्यात् <u>पादम्</u> आदत्ते । (क) श्लोकस्य पङ्कितः (ख) चतुर्थांशम् (ग) चरणम् (घ) ग्रन्थम्</p> <p>(iv) राज्ञः नेत्रदान-निश्चयं ज्ञात्वा अमात्याः <u>विषष्णाः</u> अभवन् । (क) खिन्नाः (ख) विमुखाः (ग) चिन्तिताः (घ) प्रसन्नाः</p>	4×1=4
18.	<p>मञ्जूषायाः पदसहायतया रिक्तस्थानानि पूरयित्वा अधोलिखित-कथाम् उत्तरपुस्तिकायां लिखत-</p> <p>कस्मिंच्चित् नगरे चन्द्रः (i) ----- एकः भूपतिः अवसत् । तस्य पुत्राः वानरक्रीडारताः प्रतिदिनं वानरसमूहं (ii) ----- भोज्यपदार्थैः सन्तुष्टं कुर्वन्ति स्म । तत्रैव राजगृहे बालवाहनयोग्यं मेषयूथम् अपि (iii) ----- । तत्र एकः मेषः जिह्वायाः लोलुपतावशात् अहर्निंशं महानसं प्रविश्य तत्र यद् वस्तु पश्यति तदेव (iv) ----- स्म । ततः पाचकाः यत्किञ्चित् काष्ठं मृत्तिकापात्रं कांस्यपात्रं ताप्रपात्रं वा पश्यन्ति स्म, तेन एव शीघ्रं ताडयन्ति स्म । मेषस्य सूपकाराणां च (v)----- दृष्ट्वा बुद्धिमान् वानरयूथपतिः अचिन्तयत्- “एतेषां कलहो (vi) ----- हिताय नास्ति ।” एवं चिन्तयित्वा सः सर्वान् वानरान् आहूय एकान्ते अवदत्- (vii) ----- प्रतिदिनं मेषेण सह सूपकाराणाम् अयं कलहः नूनम् अस्माकं विनाशस्य कारणं भविष्यति अतः वयत् एतत् (viii) ----- त्यक्त्वा वनं गच्छामः । तस्य इमं परामर्शम् अश्रद्धेयं मत्वा रसनास्वादलुब्धाः वानराः गन्तुं सिद्धाः न अभवन् ।</p> <p>मञ्जूषा</p> <p>भोः बान्धवाः!, आसीत्, कलहम्, नामकः, राजभवनम्, विविधैः, वानराणाम्, खादति ।</p>	8×1/2=4

-----0000-----

FRENCH (CODE:018) (2025-26)
CLASS 10 SAMPLE QUESTION PAPER

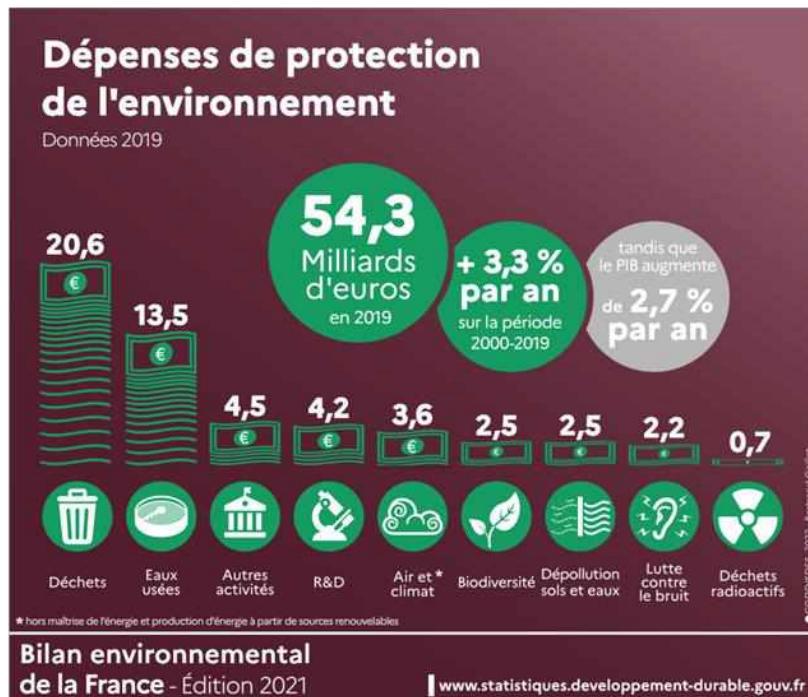
Time: 3 hours

Marks: 80

Section A (Compréhension) 10 marks

1. Lisez le texte et répondez aux questions suivantes:

10



Les écosystèmes aquatiques sont en danger

Les écosystèmes aquatiques, comme les rivières, les lacs et les mangroves, sont en train de disparaître à cause de la pollution, du changement climatique et de la mauvaise gestion (management) de l'eau. Ces problèmes rendent difficile l'accès à l'eau potable pour des millions de personnes dans le monde.

Les problèmes principaux qui se posent sont :

- Moins d'eau dans les rivières : Le débit des rivières diminue, et cela affecte 107 millions de personnes.
- Pollution des lacs : Les lacs deviennent troubles et remplis de plantes nuisibles à cause de la pollution. Cela détruit les habitats pour les animaux et rend l'eau mauvaise pour la santé.
- Destruction des mangroves : Les mangroves, qui protègent l'environnement en filtrant l'eau et en stockant du carbone, disparaissent rapidement.

En 2023, plusieurs pays ont promis de protéger les écosystèmes aquatiques. Mais entre 2015 et 2021, l'argent utilisé pour cette protection a baissé de 15 %. Cela montre qu'il faut plus d'efforts

pour résoudre ces problèmes. Entre 2015 et 2021, les investissements pour protéger l'eau ont diminué. Les mangroves, importantes pour l'environnement, sont détruites. Si ces problèmes continuent, des millions de personnes n'auront pas d'eau potable. Les animaux et plantes qui vivent dans l'eau risquent aussi de disparaître. Ensemble, nous devons agir pour protéger nos écosystèmes aquatiques ! (**Source** : *Le Monde* - 28 août 2024)

Répondez aux questions suivantes : (2 au choix)(2X2=4)

I. Selon l'image, combien d'euros dépense-t-on pour lutter contre le bruit ?

OR

[For the visually impaired ONLY]

Qu'est-ce qui rend difficile l'accès à l'eau potable ?

II. Quels sont les effets de la pollution sur les lacs ?

III. Pourquoi les mangroves sont-elles importantes pour l'environnement ?

Dites vrai ou faux : (6X0.5=3)

- I. Les écosystèmes aquatiques disparaissent à cause de la bonne gestion de l'eau.
- II. Les rivières ont moins d'eau, ce qui affecte 107 millions de personnes.
- III. La pollution des lacs rend l'eau meilleure pour la santé.
- IV. Les mangroves aident à filtrer l'eau et à stocker le carbone.
- V. Les investissements pour protéger l'eau ont augmenté entre 2015 et 2021.
- VI. Si les problèmes continuent, des millions de personnes pourraient ne pas avoir d'eau potable.

Trouvez dans le texte : (3 au choix) (3X1=3)

- I. Une préposition
- II. Forme verbale de « La protection »
- III. Un adjectif qui veut dire l'eau qu'on peut boire
- IV. Un mot pour dire « Des places géographiques des animaux et des plantes »
- V. Le contraire de « plus »

Section B (Expression écrite) 20 marks

Ecrivez UNE lettre de 80 mots :

10

2A. Vous écrivez à votre amie indienne en lui décrivant le système politique français.

OU

2B. Votre cousin vous a demandé des idées pour sauver notre planète. Écrivez-lui en décrivant ce qu'il faut faire.

OU

2C. Rédigez une lettre à votre sœur en lui parlant de vos loisirs préférés.

Parmi des questions suivantes (3A/3B/3C) abordez DEUX aux choix (5X2=10)

3. A. C'est l'anniversaire de mariage de vos parents et vous allez organiser une soirée pour eux. Rédigez une invitation à votre ami (e) français (e) lui invitant pour la soirée.

3. B. Mettez le dialogue en ordre en remplaçant les blancs par les phrases données dans la boîte ci-dessous :

Athlète : Bonjour coach, je voulais parler avec vous pour savoir comment rester en pleine forme.

Coach : Bonjour, bien sûr, c'est essentiel pour tes performances. Dis-moi, comment est ton programme actuel ?

Athlète : _____

Coach : Oui, si ton corps ne récupère pas assez. Le repos et le sommeil sont aussi importants que l'entraînement.

Athlète : _____

Coach : Privilégie les protéines, les glucides complexes et les légumes. Évite les aliments transformés et bois beaucoup d'eau.

Athlète : _____

Coach : _____

Athlète : Super idée ! Et mentalement, comment rester motivé tout le temps ?

Coach : _____

_____ : Ça marche. Est-ce que je dois ajouter des exercices que je ne fais pas encore ?
_____ : Je m'entraîne six jours par semaine, mais parfois, je me sens fatigué. Est-ce normal ?
_____ : Fixe-toi des objectifs réalistes et prends plaisir dans ce que tu fais. C'est la clé pour rester en forme sur le long terme.
_____ : D'accord, je vais essayer de mieux dormir. Et pour l'alimentation, que dois-je changer ?
_____ : Peut-être des étirements et du yoga. Cela améliore la souplesse et réduit les risques de blessures.

3 C. Complétez le texte à l'aide des mots donnés :

(comment, importance, célèbre, sur, voyage, facile, avant)

Le Petit Prince, un roman _____ écrit par Antoine de Saint-Exupéry, raconte l'histoire d'un petit garçon qui vient d'une autre planète. Il _____ et rencontre des personnages intéressants, comme un roi, un vaniteux et un renard. Ce livre parle de l'amitié, de l'amour et de l'_____ de voir avec le cœur. Les dessins simples et les phrases pleines de sagesse rendent ce livre _____ à lire pour tous. C'est une belle leçon _____ la vie.

Section C (Grammaire) 30 marks

4. Conjuguez les verbes au temps qui convient : (5 au choix) (5X1=5)

- I. Demain, vous (avoir) votre nouveau téléphone portable.
- II. Hier, ils (voir) un bon film à la télé.
- III. Quand ils sont arrivés à l'aéroport, l'avion (partir déjà).
- IV. Hier soir, je n'ai pas pu sortir car il (pleuvoir).
- V. Aussitôt qu'on (finir) la prière, on prendra le dîner.
- VI. « (Avoir) de la patience si tu veux du gâteau. » la grand-mère dit au petit garçon.
- VII. Pour (régler) le stress, les jeunes doivent pratiquer plus de sport.

5. A. Trouvez la question (5X1=5)

- I. Ils habitaient près du cinéma.
- II. Non, je voudrais du jus d'orange.
- III. Nous préférons voyager en avion.
- IV. Marc et sa famille arrivent à la gare à 10 heures.
- V. Il faut manger des fruits pour être en bonne forme.

OU

5. B. Mettez les phrases suivantes au négatif (5X1=5)

- I. Il rencontrera quelqu'un devant la poste ce soir.
- II. Les femmes aiment les bijoux et les nouveaux vêtements.
- III. Les chiens aboient toujours pendant la nuit.
- IV. Les vieux gens se sont déjà couchés.
- V. Il y a beaucoup de choses à manger sur la table.

6. Mettez les phrases au style direct ou indirect selon le cas : (5 au choix) (5 X1=5)

- I. Le serveur nous demande ce que nous voudrions comme boissons.
- II. M. Grey demande à sa femme : « Avez-vous déjà envoyé le cadeau à notre fille ? »
- III. Le père conseille à son fils : « Conduis la voiture avec soin ! »
- IV. Pauline et Marc annoncent qu'ils vont se marier.
- V. La vieille dame demande à la bonne comment elle rangera la chambre.
- VI. Le professeur demande aux élèves : « Combien de phrases sont incorrectes ? »
- VII. Ma mère me demande : « Avec qui vas-tu au pique-nique ? »

7. A. Remplissez les blancs avec les adjectifs démonstratifs ou pronoms démonstratifs : (5X1=5)

- I. Le père de ____ garçon est journaliste et ____ de son amie est professeur.
- II. ____ robe est plus chère que ____.
- III. Il y a deux sortes de chaises dans le magasin. ____ sont en bois et ____ sont en plastique.

IV. Le bureau du directeur est dans _____ rue et _____ du ministre est dans la rue Balzac.

V. « Prends _____ pantalons, pas _____ » la mère dit à son fils.

OU

7. B. Complétez avec un adjectif possessif ou pronom possessif (5X1=5)

- I. Nicole est fière de _____ pays. Et toi, aimes-tu _____ ?
- II. « Venez avec _____ parents ! Nous venons avec _____. »
- III. Ils voyagent dans _____ voiture et vous voyagez dans _____.
- IV. Elle sort de _____ maison à 7h et je sors _____ à 8h.
- V. Les animaux gardent _____ enfants pour quelque temps mais les humains gardent _____ toute la vie.

8. A. Reliez les phrases avec un pronom relatif simple ou composé (5X1=5)

- I. J'ai gagné un nouveau boulot. Je suis fière de mon boulot.
- II. M et Mme Sanchez sont des scientifiques. On trouve des choses intéressantes chez eux.
- III. Rohan est mon meilleur ami. J'achète un cadeau pour lui.
- IV. Il y a de l'épinard dans le panier. Il n'est pas frais maintenant.
- V. Voilà les filles. Tous les enfants aiment jouer avec elles.

OU

8. B. Remplacez les noms soulignés par les pronoms personnels (5X1=5)

- I. J'ai vu Marie hier soir.
- II. Isabelle va parler à Denis demain.
- III. Nous mangeons beaucoup de fruits chez nos grands-parents.
- IV. Elle a fini par offrir des fleurs aux parents.
- V. Benoît cherche sa tante à la gare.

9. Conjuguez les verbes au subjonctif : (5 au choix) (5X1=5)

- I. Nous sommes contents que tous nos invités (être) présents à la cérémonie.
- II. Il faut que vous (téléphoner) à votre ami avant de le visiter.
- III. Il est possible que les enfants (prendre) le mauvais chemin.
- IV. Je veux qu'ils (savoir) la vérité.
- V. Il est nécessaire qu'on (manger) lentement.
- VI. Vous êtes contents que vous (avoir) de la chance aux jeux des cartes.
- V. Il faut que tu (finir) le cours à l'heure.

10. Répondez aux questions (20 à 30 mots) : (5 au choix) (5X2=10)

- I. Que peut-on faire si on n'a pas les moyens de payer les frais de ses études ?
- II. Quelles sont les responsabilités du Président français ?
- III. Qu'est-ce qu'il faut faire pour obtenir une carte de lecteur ?
- IV. Que peut-on faire pour protéger notre planète ?
- V. Qu'est-ce qui constitue les médias ?
- VI. Qu'est-ce qu'un quotidien et un hebdomadaire ?
- VII. Qu'est-ce que la Couverture Sociale ?

11. Complétez à l'aide des mots donnés ci-dessous : (5 au choix) (5x1=5)

(Palais Bourbon, santé, s'inquiéter, gaspillage, arrose, répondeur, fait divers)

- I. Pour protéger notre planète, on doit réduire le _____.
- II. Le _____ est une rubrique du journal.
- III. On ne doit pas _____ pour éviter le stress.
- IV. Le _____ est le siège de l'Assemblée Nationale.
- V. Quand nous tombons sur le _____, nous laissons un message.
- VI. Celui qui a la _____ est riche sans le savoir.
- VII. Le jardinier _____ les plantes.

12. A. Faites correspondre les éléments de la colonne A avec ceux de la colonne B: (5x1=5)

A

- I. Terminale
- II. Conserver
- III. Une carte de lecteur
- IV. *L'Express*
- V. Être au chômage

B

- i. Magazine
- ii. La bibliothèque
- iii. Chercher un boulot
- iv. Lycée
- v. L'eau

OU

12. B. Ecrivez vrai ou faux : (5x1=5)

- I. Un mensuel paraît une fois par mois.
- II. Les députés sont élus par le peuple souverain.
- III. Il faut absolument éviter le gaspillage du temps.
- IV. On doit éviter de manger des fruits et des légumes.
- V. *Tournesols* est un tableau de Renoir.

MATHEMATICS (BASIC) – Code No. 241
SAMPLE QUESTION PAPER
CLASS - X (2025 - 26)

Maximum marks:80

Time :3 hour

General Instructions

Read the following instructions carefully and follow them:

1. This question paper contains 38 questions. All Questions are compulsory.
2. This Question Paper is divided into 5 Sections A, B, C, D and E.
3. In Section A, Question numbers 1-18 are multiple choice questions (MCQs) and question no.19 and 20 are Assertion- Reason based questions of 1 mark each.
4. In Section B, Question numbers 21-25 are very short answer (VSA) type questions, carrying 02 marks each.
5. In Section C, Question numbers 26-31 are short answer (SA) type questions, carrying 03 marks each.
6. In Section D, Question numbers 32-35 are long answer (LA) type questions, carrying 05 marks each.
7. In Section E, Question numbers 36-38 are case study-based questions carrying 4 marks each with sub parts of the values of 1, 1 and 2 marks each respectively.
8. There is no overall choice. However, an internal choice in 2 questions of Section B, 2 questions of Section C and 2 questions of Section D has been provided. An internal choice has been provided in all the 2 marks questions of Section E.
9. Draw neat and clean figures wherever required. Take $\pi = \frac{22}{7}$ wherever required if not stated.
10. Use of calculators is not allowed.

SECTION – A
(Multiple Choice Questions)

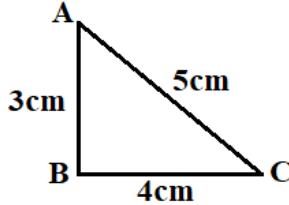
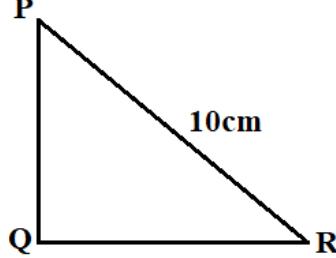
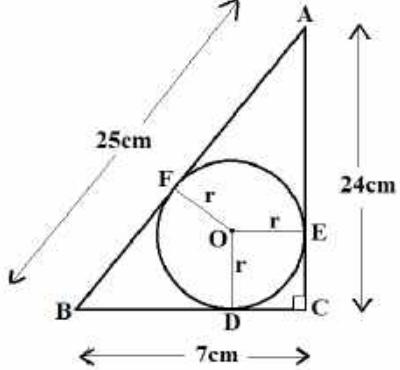
Each MCQ of 1mark, has four options with only one correct option, choose the correct option

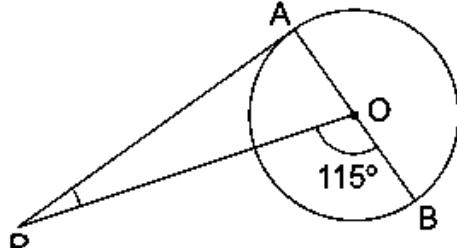
Q. No.	Question	Marks
Q1.	<p>The exponent of 3 in the prime factorization of 2025 is</p> <p>A) 1 B) 2 C) 3 D) 4</p>	1
Q2.	<p>If $2024x + 2025y = 1$; $2025x + 2024y = -1$, then $x - y =$</p> <p>A) 0 B) -2 C) 2 D) -1</p>	1

*Please note that the assessment scheme of the Academic Session 2024-25 will continue in the current session i.e. 2025-26

Q3.	<p>The number of polynomials having -2 and 5 as its zeroes is</p> <p>A) one B) two C) three D) Infinitely many</p>	1
Q4.	<p>Which of the following is not a quadratic equation?</p> <p>A) $(x + 2)^2 = 2(x + 3)$ B) $x^2 + 3x = (-1)(1 - 3x^2)$ C) $(x + 2)(x - 1) = x^2 - 2x - 3$ D) $x^3 - x^2 + 2x + 1 = (x + 1)^3$</p>	1
Q5.	<p>The value of x for which $2x$, $(x + 10)$ and $(3x + 2)$ are the three consecutive terms of an AP is</p> <p>A) 6 B) -6 C) -2 D) 2</p>	1
Q6.	<p>If $1 + 2 + 3 + 4 + \dots + 50 = 25k$, then $k =$</p> <p>A) 50 B) 51 C) 49 D) 26</p>	1
Q7.	<p>The distance between the points $(\cos 30^\circ, \sin 30^\circ)$ and $(\cos 60^\circ, -\sin 60^\circ)$ is</p> <p>A) 0 unit B) $\sqrt{3}$ units C) 1 unit D) $\sqrt{2}$ units</p>	1
Q8.	<p>The co-ordinates of the point which is mirror image of the point $(-3, 5)$ about x-axis are</p> <p>A) $(3, 5)$ B) $(3, -5)$ C) $(-3, -5)$ D) $(-3, 5)$</p>	1
Q9.	<p>If in ΔABC and ΔDEF, $\frac{AB}{EF} = \frac{AC}{DE}$ then they will be similar when</p> <p>A) $\angle A = \angle D$ B) $\angle A = \angle E$ C) $\angle C = \angle F$ D) $\angle B = \angle E$</p>	1

*Please note that the assessment scheme of the Academic Session 2024-25 will continue in the current session i.e. 2025-26

Q10.	<p>If $\triangle ABC \sim \triangle PQR$, then perimeter of the triangle PQR (in cm) is</p> <p>A) 12 B) 24 C) 18 D) 20</p>  	1
For visually Impaired students only	<p>If $\triangle ABC \sim \triangle PQR$, where $AB = 3\text{cm}$, $BC = 4\text{cm}$, $AC = 5\text{cm}$ and $PR = 10\text{cm}$, then perimeter of the triangle PQR (in cm) is</p> <p>A) 12 B) 24 C) 18 D) 20</p>	1
Q11.	<p>In the figure given below, radius r of the circle which touches the sides of the triangle is</p>	1
	<p>A) 3 cm B) 6 cm C) 7 cm D) 4 cm</p>	
	 <p>For visually Impaired students only</p> <p>From a point P, which is at a distance of 26cm from the centre O of a circle with radius 10 cm, the pair of tangents PQ and PR to the circle are drawn. Then the area of the quadrilateral PQOR (in cm^2) is</p> <p>A) 220 B) 240 C) 260 D) 280</p>	1
Q12.	<p>Which one of the following is not equal to Unity?</p> <p>A) $\sin^2 x + \cos^2 x$ B) $\cot^2 x - \operatorname{cosec}^2 x$ C) $\sec^2 x - \tan^2 x$ D) $\tan x \cdot \cot x$</p>	1

Q13.	<p>Consider the following frequency distribution</p> <table border="1"> <tr> <td>Class</td><td>0 – 5</td><td>5 – 10</td><td>10 – 15</td><td>15 – 20</td><td>20 – 25</td></tr> <tr> <td>Frequency</td><td>11</td><td>12</td><td>13</td><td>9</td><td>11</td></tr> </table> <p>The upper limit of median class is</p> <p>A) 10 B) 13 C) 15 D) 20</p>	Class	0 – 5	5 – 10	10 – 15	15 – 20	20 – 25	Frequency	11	12	13	9	11	1
Class	0 – 5	5 – 10	10 – 15	15 – 20	20 – 25									
Frequency	11	12	13	9	11									
Q14.	<p>Let empirical relationship between the three measures of central tendency be $a(\text{Median}) = Mode + b(\text{Mean})$, then $(2b + 3a) =$</p> <p>A) 11 B) 12 C) 13 D) 14</p>	1												
Q15.	<p>From an external point Q, the length of tangent to a circle is 12 cm and the distance of Q from the centre of circle is 13 cm. The radius of circle (in cm) is</p> <p>A) 10 B) 5 C) 12 D) 7</p>	1												
Q16.	<p>In the given figure, PA is a tangent from an external point P to a circle with centre O and diameter AB. If $\angle POB = 115^\circ$, then measure of $\angle APO$ is</p> <p>A) 25° B) 30° C) 20° D) 65°</p>  <p>For visually Impaired students only</p> <p>At one end A of a diameter AB of a circle with radius 13 cm, tangent XAY is drawn to the circle. The length of the chord CD parallel to XY and at a distance 18 cm from A is</p> <p>A) 24 cm B) 25 cm C) 26 cm D) 18 cm</p>	1												

Q17.	<p>The circumferences of two circles are in the ratio 3 : 4. The ratio of their areas is</p> <p>A) 3 : 4 B) 4 : 3 C) 9 : 16 D) 16 : 9</p>	1
Q18.	<p>An event is most unlikely to happen. Its probability is</p> <p>A) 0.0001 B) 0.001 C) 0.01 D) 0.1</p>	1
	<p>Each of the following questions contains two statements i.e., ASSERTION and REASON, and has following four choices. Only one of which is the correct answer.</p>	
Q19.	<p>ASSERTION (A): Line joining the midpoints of two sides of triangle is parallel to the third side.</p> <p>REASON (R): If a line divides two sides of a triangle in the same ratio then it is parallel to the third side.</p> <p>A) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A). B) Both assertion (A) and reason (R) are true but reason (R) is not the correct explanation of assertion (A). C) Assertion (A) is true but reason (R) is false. D) Assertion (A) is false but reason (R) is true.</p>	1
Q20.	<p>ASSERTION (A): Two coins are tossed simultaneously. Possible outcomes are two heads, one head and one tail, two tails. Hence, the probability of getting two heads is $\frac{1}{3}$.</p> <p>REASON (R): Probabilities of 'equally likely' outcomes of an experiment are always equal.</p> <p>A) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A). B) Both assertion (A) and reason (R) are true but reason (R) is not the correct explanation of assertion (A). C) Assertion (A) is true but reason (R) is false. D) Assertion (A) is false but reason (R) is true.</p>	1

*Please note that the assessment scheme of the Academic Session 2024-25 will continue in the current session i.e. 2025-26

SECTION – B
(Very Short Answers)

This section comprises of VSA of 2 marks each

Q21.	<p>(A) Show that the number $2 \times 5 \times 7 \times 11 + 11 \times 13$ is a composite number.</p> <p style="text-align: right;">2</p> <p style="text-align: center;">OR</p> <p>(B) Find the smallest number which is divisible by both 306 and 657.</p>	
Q22.	<p>Find the radius of the circle with centre at origin, if line l given by $x + y = 5$ is tangent to the circle at point P.</p>	2
	<p>For visually Impaired students only</p> <p>Find the radius of the circle whose end points of a diameter are (0, 0) and (6, 8).</p>	
Q23.	<p>If the zeroes of the quadratic polynomial $x^2 + (a + 1)x + b$ are 2 and -3, then find the values of a and b.</p>	2
Q24.	<p>Find the nature of roots of the quadratic equation $x^2 + 4x - 3\sqrt{2} = 0$.</p>	2
Q25.	<p>(A) Evaluate : $2 \sin 30^\circ \tan 60^\circ - 3 \cos^2 60^\circ \sec^2 30^\circ$</p> <p style="text-align: center;">OR</p> <p>(B) If $\sin x = \frac{7}{25}$, where x is an acute angle, then find the value of $\sin x \cdot \cos x (\tan x + \cot x)$.</p>	2

*Please note that the assessment scheme of the Academic Session 2024-25 will continue in the current session i.e. 2025-26

SECTION – C
(Short Answers)

This section comprises of SA type questions of 3 marks each

Q26.	Show that $\sqrt{2} - \sqrt{5}$ is an irrational number.	3																										
Q27.	<p>(A) The frequency distribution table of agriculture holdings in a village is given below:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="width: 25%;">Area of land (in hectares)</td><td>1 – 3</td><td>3 – 5</td><td>5 – 7</td><td>7 – 9</td><td>9 – 11</td><td>11 – 13</td></tr> <tr> <td>No. of families</td><td>20</td><td>45</td><td>80</td><td>55</td><td>40</td><td>12</td></tr> </table> <p>Find the modal agriculture holdings of the village.</p> <p style="text-align: center;">OR</p> <p>(B) If the mean of the following distribution is 54, find the value of p.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="width: 25%;">Class Interval</td><td>0 – 20</td><td>20 – 40</td><td>40 – 60</td><td>60 – 80</td><td>80 – 100</td></tr> <tr> <td>Frequency</td><td>7</td><td>p</td><td>10</td><td>9</td><td>13</td></tr> </table>	Area of land (in hectares)	1 – 3	3 – 5	5 – 7	7 – 9	9 – 11	11 – 13	No. of families	20	45	80	55	40	12	Class Interval	0 – 20	20 – 40	40 – 60	60 – 80	80 – 100	Frequency	7	p	10	9	13	3
Area of land (in hectares)	1 – 3	3 – 5	5 – 7	7 – 9	9 – 11	11 – 13																						
No. of families	20	45	80	55	40	12																						
Class Interval	0 – 20	20 – 40	40 – 60	60 – 80	80 – 100																							
Frequency	7	p	10	9	13																							
Q28.	<p>A quadrilateral ABCD is drawn to circumscribe a circle, as shown in the given figure. Show that $\frac{AB + CD}{AD + BC} = 1$</p> <p>For visually Impaired students only</p> <p>Show that parallelogram circumscribing a circle is a rhombus.</p>	3																										

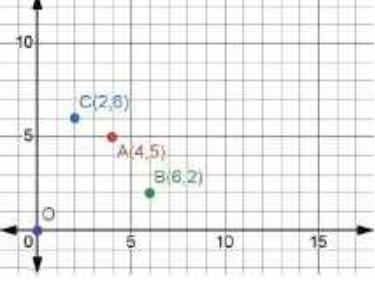
*Please note that the assessment scheme of the Academic Session 2024-25 will continue in the current session i.e. 2025-26

Q29.	<p>(A) On a particular day, 50000 people attended a Cricket Test Match between India and Australia in Sydney Cricket Ground. Let x be the number of adults attended the cricket match and y be the number of children attended the cricket match. Cost of an adult ticket was ₹1000 while cost of a child ticket was ₹200. On that day Revenue earned by selling all 50,000 tickets, was ₹4,20,00,000. Find how many adults and how many children attended the cricket match?</p> <p style="text-align: center;">OR</p> <p>(B) Solve for x and y, graphically: $2x + y = 6$; $x + y = 5$</p> <p>For visually Impaired students only</p> <p>(A) On a particular day, 50000 people attended a Cricket Test Match between India and Australia in Sydney Cricket Ground. Let x be the number of adults attended the cricket match and y be the number of children attended the cricket match. Cost of an adult ticket was ₹1000 while cost of a child ticket was ₹200. On that day Revenue earned by selling all 50,000 tickets, was ₹4,20,00,000. Find how many adults and how many children attended the cricket match.</p> <p style="text-align: center;">OR</p> <p>(B) A 2-digit number is 6 times the sum of its digits. The number formed by reversing the digits is 9 less than the given number. Find the number.</p>	3
Q30.	Prove that : $(\sin x - \cos x + 1) \cdot (\sec x - \tan x) = (\sin x + \cos x - 1)$	3
Q31.	The sum of first n terms of an AP is $5n^2 - n$. Find the n^{th} term of the AP.	3
<p>SECTION – D (Long Answers)</p> <p><i>This section comprises of LA type questions of 5 marks each</i></p>		
Q32.	Prove that a line drawn parallel to one side of a triangle intersecting other two sides in distinct points, divides the other two sides in the same ratio.	5
Q33.	<p>(A) The numerator of a fraction is 3 less than its denominator. If 2 is added to both of its numerator and denominator then the sum of the new fraction and original fraction is $\frac{29}{20}$. Find the original fraction.</p> <p style="text-align: center;">OR</p> <p>(B) A train covers a distance of 300 km at a uniform speed. If the speed of the train is increased by 5 km/hr, it takes 2 hours less in the journey. Find the original speed of the train.</p>	5

Q34.	<p>(A) The angle of elevation of the top of a chimney from the foot of a tower is 60° and the angle of depression of the foot of the chimney from the top of the tower is 30°. If the height of the tower is 40 meters, find the height of the chimney. Also, find the length of the wire tied from the top of the chimney to the top of the tower.</p> <p style="text-align: center;">OR</p> <p>(B) The angles of depression of the top and bottom of a 50m high building from the top of a tower are 45° and 60° respectively. Find the height of the tower and the horizontal distance between the tower and the building. (Use $\sqrt{3} = 1.73$)</p>	5
Q35.	A solid toy is in the form of a hemisphere surmounted by a right circular cone of height 2cm and diameter of base 4cm. If a right circular cylinder circumscribes the toy, find the difference of the volumes of the cylinder and the toy. [Use $\pi = 3.14$]	5

SECTION - E
(Case-study Based Questions)

This section comprises of 3 case-study based questions of 4 marks each with three sub-parts.

Q36.	<p>Carpooling is the sharing of car journeys so that more than one person travels in a car, and prevents the need for others to have to drive to a location themselves. By having more people using one vehicle, carpooling reduces each person's travel costs such as: fuel costs, tolls, and the stress of driving. Carpooling is also a more environmentally friendly and sustainable way to travel as sharing journeys reduces air pollution, carbon emissions, traffic congestion on the roads, and the need for parking spaces.</p>   <p>Three friends Amar, Bhavin and Chetanya live in societies represented by the points A(4,5), B(6,2) and C(2,6) respectively. They all work in offices located in a same building represented by the point O(0,0). Since they all go to same building every day, they decided to do carpooling to save money on petrol. Based on the above information, answer the following questions.</p> <p>i) What is the distance between B and C? 1</p> <p>ii) If Bhavin and Chetanya planned to meet at a club situated at the mid-point of the line joining the points B and C, find the coordinates of this point. 1</p> <p>iii) (A) Which society is farthest from the office? Also find its distance from the office. 2</p> <p style="text-align: center;">OR</p> <p>(B) Out of B and C which society is nearer to A? Also find their distances.</p>	
------	---	--

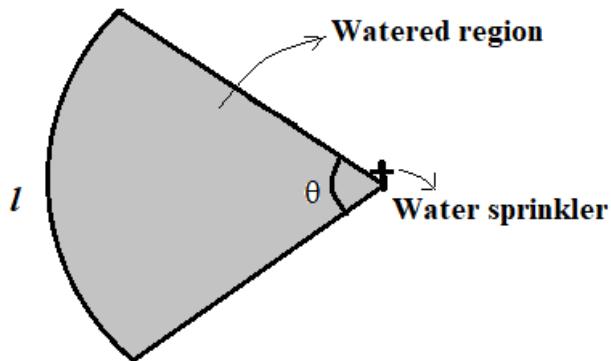
*Please note that the assessment scheme of the Academic Session 2024-25 will continue in the current session i.e. 2025-26

Q37.

A water sprinkler is a device used to irrigate agricultural crops, lawns, landscapes, golf courses, and other areas. Water sprinklers can be used for residential, industrial, and agricultural usage.



A water sprinkler is set to shoot a stream of water a distance of 21 m and rotate through an angle which is equal to complementary angle of 10° .



- i) What is the area of sector in terms of arc length? 1
- ii) What is the area of the watered region (in terms of π)? 1
- iii) (A) If the radius(r) changes to 28m, find the angle θ so that the area of the watered region remains the same. 2

OR

(B) If the radius(r) is increased from 21m to 28m and the angle remains the same, what is the increase in the area of the watered region?

Q38. One of four main blood types can be found in a human body. They are known as A, B, AB and O. Each blood type can be further classified as either a Rhesus positive (+) or Rhesus negative (-). For example, a possible combination is blood type O and Rhesus negative which is written as O^-

The data below shows the distribution of the blood types and Rhesus types of given blood type for a **Blood Donation Center** recorded (in percentages) for the year 2023.

BLOOD GROUP	RHESUS FACTOR	NUMBER OF PERSONS (in %)
O	O^-	x
	O^+	30
A	A^-	8
	A^+	24
B	B^-	6
	B^+	18
AB	AB^-	1
	AB^+	3



- Find the value of x .
- Find the probability that a randomly selected person has a Rhesus negative blood type.
- (A) What is the probability that the person selected from the record is Rhesus positive but neither blood type A nor B?

1
1
2

OR

(B) People with blood type AB positive (AB^+) are known as the universal recipient and with blood type O negative (O^-) are known as universal donor. Find the probability of a selected person to be neither universal recipient nor universal donor.

*Please note that the assessment scheme of the Academic Session 2024-25 will continue in the current session i.e. 2025-26

**MATHEMATICS STANDARD – Code No.041
SAMPLE QUESTION PAPER
CLASS – X (2025-26)**

Maximum Marks: 80

Time: 3 hours

General Instructions:

Read the following instructions carefully and follow them:

1. This question paper contains 38 questions. All Questions are compulsory.
2. This Question Paper is divided into 5 Sections A, B, C, D and E.
3. In Section A, Question numbers 1-18 are multiple choice questions (MCQs) and questions no. 19 and 20 are Assertion- Reason based questions of 1 mark each.
4. In Section B, Question numbers 21-25 are very short answer (VSA) type questions, carrying 02 marks each.
5. In Section C, Question numbers 26-31 are short answer (SA) type questions, carrying 03 marks each.
6. In Section D, Question numbers 32-35 are long answer (LA) type questions, carrying 05 marks each.
7. In Section E, Question numbers 36-38 are case study-based questions carrying 4 marks each with sub parts of the values of 1, 1 and 2 marks each respectively.
8. There is no overall choice. However, an internal choice in 2 questions of Section B, 2 questions of Section C and 2 questions of Section D has been provided. An internal choice has been provided in all the 2 marks questions of Section E.
9. Draw neat and clean figures wherever required. Take $\pi = \frac{22}{7}$ wherever required if not stated.
10. Use of calculators is not allowed.

(Section A)

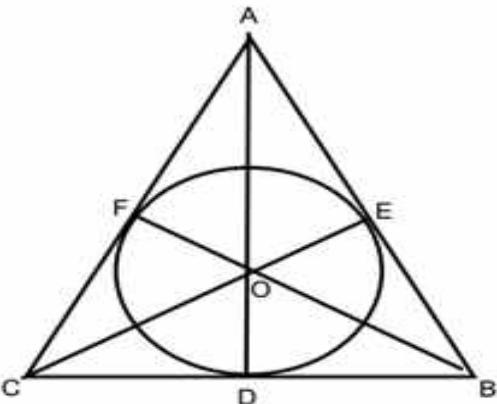
Section A consists of 20 questions of 1 mark each.

<p style="text-align: center;">(Section A) Section A consists of 20 questions of 1 mark each.</p>		
Q.No.	Questions	Marks
1.	If $a = 2^2 \times 3^x$, $b = 2^2 \times 3 \times 5$, $c = 2^2 \times 3 \times 7$ and $\text{LCM}(a, b, c) = 3780$, then x is equal to (A) 1 (B) 2 (C) 3 (D) 0	1
2.	The shortest distance (in units) of the point (2,3) from y-axis is (A) 2 (B) 3 (C) 5 (D) 1	1
3.	If the lines given by $3x + 2ky = 2$ and $2x + 5y + 1 = 0$ are not parallel, then k has to be (A) $\frac{15}{4}$ (B) $\neq \frac{15}{4}$ (C) any rational number (D) any rational number having 4 as denominator	1

4.	A quadrilateral ABCD is drawn to circumscribe a circle. If BC=7cm, CD=4cm and AD=3cm, then the length of AB is (A) 3cm (B) 4cm (C) 6cm (D) 7cm	1
5.	If $\sec\theta + \tan\theta = x$, then $\sec\theta - \tan\theta$ will be (A) x (B) x^2 (C) $\frac{2}{x}$ (D) $\frac{1}{x}$	1
6.	Which one of the following is not a quadratic equation? (A) $(x+2)^2 = 2(x+3)$ (B) $x^2 + 3x = (-1)(1-3x)^2$ (C) $x^3 - x^2 + 2x + 1 = (x+1)^3$ (D) $(x+2)(x+1) = x^2 + 2x + 3$	1
7.	Given below is the picture of the Olympic rings made by taking five congruent circles of radius 1cm each, intersecting in such a way that the chord formed by joining the point of intersection of two circles is also of length 1cm. Total area of all the dotted regions (assuming the thickness of the rings to be negligible) is  The diagram shows the five Olympic rings (blue, black, red, green, yellow) arranged in their standard interlocking pattern. Points A and B are marked on the blue ring, with point A at the bottom-left and point B at the top-right, both located on the chord of the intersection between the blue and black rings. (A) $4[\frac{\pi}{12} - \frac{\sqrt{3}}{4}] \text{ cm}^2$ (B) $[\frac{\pi}{6} - \frac{\sqrt{3}}{4}] \text{ cm}^2$ (C) $4[\frac{\pi}{6} - \frac{\sqrt{3}}{4}] \text{ cm}^2$ (D) $8[\frac{\pi}{6} - \frac{\sqrt{3}}{4}] \text{ cm}^2$	1
For Visually Impaired candidates		
The area of the circle that can be inscribed in a square of 6 cm is (A) $36\pi\text{cm}^2$ (B) $18\pi\text{cm}^2$ (C) $12\pi\text{cm}^2$ (D) $9\pi\text{cm}^2$		
8.	A pair of dice is tossed. The probability of not getting the sum eight is (A) $\frac{5}{36}$ (B) $\frac{31}{36}$ (C) $\frac{5}{18}$ (D) $\frac{5}{9}$	1
9.	If $2\sin 5x = \sqrt{3}$, $0^\circ \leq x \leq 90^\circ$, then x is equal to (A) 10° (B) 12° (C) 20° (D) 50°	1
10.	The sum of two numbers is 1215 and their HCF is 81, then the possible pairs of such numbers are (A) 2 (B) 3 (C) 4 (D) 5	1

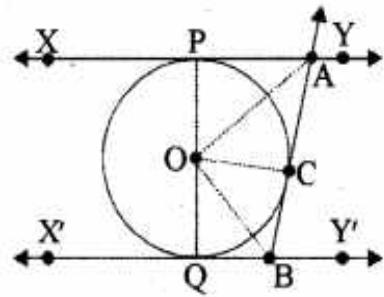
*Please note that the assessment scheme of the Academic Session 2024-25 will continue in the current session i.e. 2025-26

11.	If the area of the base of a right circular cone is 51cm^2 and its volume is 85cm^3 , then the height of the cone is given as (A) $\frac{5}{6}\text{ cm}$ (B) $\frac{5}{3}\text{ cm}$ (C) $\frac{5}{2}\text{ cm}$ (D) 5cm	1
12.	If zeroes of the quadratic polynomial $ax^2 + bx + c$ ($a, c \neq 0$) are equal, then (A) c and b must have opposite signs (B) c and a must have opposite signs (C) c and b must have same signs (D) c and a must have same signs	1
13.	The area (in cm^2) of a sector of a circle of radius 21cm cut off by an arc of length 22cm is (A) 441 (B) 321 (C) 231 (D) 221	1
14.	If $\triangle ABC \sim \triangle DEF$, $AB=6\text{cm}$, $DE=9\text{cm}$, $EF=6\text{cm}$ and $FD=12\text{cm}$, then the perimeter of $\triangle ABC$ is (A) 28cm (B) 28.5cm (C) 18cm (D) 23cm	1
15.	If the probability of the letter chosen at random from the letters of the word "Mathematics" to be a vowel is $\frac{2}{2x+1}$, then x is equal to (A) $\frac{4}{11}$ (B) $\frac{9}{4}$ (C) $\frac{11}{4}$ (D) $\frac{4}{9}$	1
16.	The points $A(9,0)$, $B(9, -6)$, $C(-9,0)$ and $D(-9,6)$ are the vertices of a (A) Square (B) Rectangle (C) Parallelogram (D) Trapezium	1
17.	The median of a set of 9 distinct observations is 20.5. If each of the observations of a set is increased by 2, then the median of a new set (A) is increased by 2 (B) is decreased by 2 (C) is two times the original number (D) Remains same as that of original observations	1
18.	The length of a tangent drawn to a circle of radius 9 cm from a point at a distance of 41cm from the centre of the circle is (A) 40cm (B) 9cm (C) 41cm (D) 50cm	1
	DIRECTIONS: In the question number 19 and 20, a statement of Assertion (A) is followed by a statement of Reason (R) . Choose the correct option: (A) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A) (B) Both assertion (A) and reason (R) are true and reason (R) is not the explanation of assertion (A) (C) Assertion (A) is true but reason (R) is false. (D) Assertion (A) is false but reason (R) is true.	

19.	Assertion (A): The number 5^n cannot end with the digit 0, where n is a natural number Reason (R): A number ends with 0, if its prime factorization contains both 2 and 5	1
20.	Assertion (A): If $\cos A + \cos^2 A = 1$, then $\sin^2 A + \sin^4 A = 1$ Reason (R): $\sin^2 A + \cos^2 A = 1$	1
(Section – B)		
Section B consists of 5 questions of 2 marks each.		
21.(A)	The A.P 8, 10, 12,..... has 60 terms. Find the sum of last 10 terms.	2
	OR	
(B)	Find the middle term of A.P 6,13, 20,, 230	
22.	If $\sin(A + B) = 1$ and $\cos(A - B) = \frac{\sqrt{3}}{2}$, $0^\circ < A, B < 90^\circ$, find the measure of angles A and B .	2
23.	If AP and DQ are medians of triangles ABC and DEF respectively, where $\Delta ABC \sim \Delta DEF$, then prove that $\frac{AB}{DE} = \frac{AP}{DQ}$	2
24. (A)	A horse, a cow and a goat are tied, each by ropes of length 14m, at the corners A, B and C respectively, of a grassy triangular field ABC with sides of lengths 35m, 40m and 50 m. Find the area of grass field that can be grazed by them.	2
	OR	
(B)	Find the area of the major segment (in terms of π) of a circle of radius 5cm, formed by a chord subtending an angle of 90° at the centre.	
25.	A ΔABC is drawn to circumscribe a circle of radius 4 cm such that the segments BD and DC are of lengths 10 cm and 8 cm respectively. Find the lengths of the sides AB and AC, if it is given that $\text{ar}(\Delta ABC) = 90\text{cm}^2$	2
 <p>For Visually Impaired candidates: A circle is inscribed in a right-angled triangle ABC, right angled at B. If BC=7cm and AB=24cm, find the radius of the circle</p>		

(Section – C)
Section C consists of 6 questions of 3 marks each.

26. In Figure, XY and $X'Y'$ are two parallel tangents to a circle with centre O and another tangent AB with point of contact C intersecting XY at A and $X'Y'$ at B. Prove that $\angle AOB = 90^\circ$



For Visually Impaired candidates:

Two tangents PA and PB are drawn to a circle with centre O from an external point P. Prove that $\angle APB = 2(\angle OAB)$

27. In a workshop, the number of teachers of English, Hindi and Science are 36, 60 and 84 respectively. Find the minimum number of rooms required, if in each room the same number of teachers are to be seated and all of them being of the same subject.

28. Find the zeroes of the quadratic polynomial $2x^2 - (1 + 2\sqrt{2})x + \sqrt{2}$ and verify the relationship between the zeroes and coefficients of the polynomial.

29. If $\sin\theta + \cos\theta = \sqrt{3}$, then prove that $\tan\theta + \cot\theta = 1$

OR

$$\text{Prove that } \frac{\cos A - \sin A + 1}{\cos A + \sin A - 1} = \operatorname{cosec} A + \cot A$$

30. On a particular day, Vidhi and Unnati couldn't decide on who would get to drive the car. They had one coin each and flipped their coin exactly three times. The following was agreed upon:

1. If Vidhi gets two heads in a row, she would drive the car
2. If Unnati gets a head immediately followed by a tail, she would drive the car.

Who has greater probability to drive the car that day? Justify your answer.

31.(A) The monthly income of Aryan and Babban are in the ratio 3:4 and their monthly expenditures are in ratio 5:7. If each saves ₹ 15,000 per month, find their monthly incomes.

OR

(B) Solve the following system of equations graphically:

$$2x + y = 6, 2x - y - 2 = 0. \text{ Find the area of the triangle so formed by two lines and } x\text{-axis.}$$

For Visually Impaired candidates:

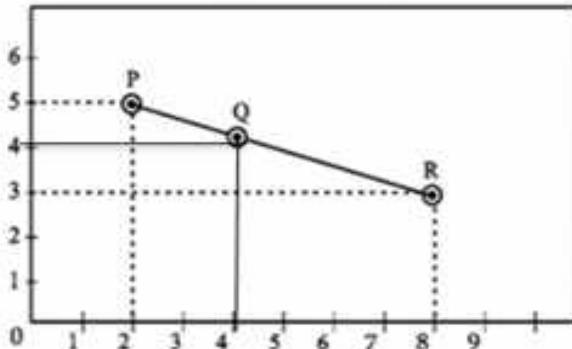
Five years hence, fathers age will be three times the age of son. Five years ago, father was seven times as old as his son. Find their present ages.

(Section – D)
Section D consists of 4 questions of 5 marks each

32.	A train travels at a certain average speed for a distance of 63km and then travels at a distance of 72km at an average speed of 6km/hr more than its original speed. If it takes 3 hours to complete the total journey, what is the original average speed?	5																												
33.	<p>Prove that if a line is drawn parallel to one side of a triangle to intersect the other two sides in distinct points, the other two sides are divided in the same ratio.</p> <p>Hence in ΔPQR, prove that a line ℓ intersects the sides PQ and PR of a ΔPQR at L and M respectively such that $LM \parallel QR$. If $PL = 5.7\text{cm}$, $PQ = 15.2\text{cm}$ and $MR = 5.5\text{cm}$, then find the length of PM (in cm)</p>	5																												
34.(A)	<p>From a solid right circular cone, whose height is 6cm and radius of base is 12cm, a right circular cylindrical cavity of height 3cm and radius 4cm is hollowed out such that bases of cone and cylinder form concentric circles. Find the surface area of the remaining solid in terms of π.</p> <p style="text-align: center;">OR</p>	5																												
(B)	<p>An empty cone of radius 3cm and height 12cm is filled with ice-cream such that the lower part of the cone which is $(\frac{1}{6})^{\text{th}}$ of the volume of the cone is unfilled (empty) but a hemisphere is formed on the top. Find the volume of the ice-cream.</p>																													
35.(A)	<p>If the mode of the following distribution is 55, then find the value of x. Hence, find the mean.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="width: 15%;">Class Interval</td> <td style="width: 15%;">0 – 15</td> <td style="width: 15%;">15 – 30</td> <td style="width: 15%;">30 – 45</td> <td style="width: 15%;">45 – 60</td> <td style="width: 15%;">60 – 75</td> <td style="width: 15%;">75 – 90</td> </tr> <tr> <td>Frequency</td> <td>10</td> <td>7</td> <td>x</td> <td>15</td> <td>10</td> <td>12</td> </tr> </table> <p style="text-align: center;">OR</p> <p>(B) A survey regarding heights (in cm) of 51 girls of class X of a school was conducted and the following data was obtained:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="width: 45%;">Heights (in cm)</th> <th style="width: 55%;">Number of girls</th> </tr> </thead> <tbody> <tr> <td>less than 140</td> <td>04</td> </tr> <tr> <td>less than 145</td> <td>11</td> </tr> <tr> <td>less than 150</td> <td>29</td> </tr> <tr> <td>less than 155</td> <td>40</td> </tr> <tr> <td>less than 160</td> <td>46</td> </tr> <tr> <td>less than 165</td> <td>51</td> </tr> </tbody> </table> <p>Find the median height of girls. If mode of the above distribution is 148.05, find the mean using empirical formula.</p>	Class Interval	0 – 15	15 – 30	30 – 45	45 – 60	60 – 75	75 – 90	Frequency	10	7	x	15	10	12	Heights (in cm)	Number of girls	less than 140	04	less than 145	11	less than 150	29	less than 155	40	less than 160	46	less than 165	51	5
Class Interval	0 – 15	15 – 30	30 – 45	45 – 60	60 – 75	75 – 90																								
Frequency	10	7	x	15	10	12																								
Heights (in cm)	Number of girls																													
less than 140	04																													
less than 145	11																													
less than 150	29																													
less than 155	40																													
less than 160	46																													
less than 165	51																													

(Section – E)

Section E consists of 3 case study-based questions of 4 marks each.

<p>36. In a class, the teacher asks every student to write an example of A.P. Two boys Aryan and Roshan writes the progression as $-5, -2, 1, 4, \dots$ and $187, 184, 181, \dots$ respectively. Now the teacher asks his various students the following questions on progression.</p> <p>Help the students to find answers for the following:</p> <ol style="list-style-type: none"> i. Find the sum of the common difference of two progressions. 1 ii. Find the 34th term of progression written by Roshan. 1 iii. (A) Find the sum of first 10 terms of the progression written by Aryan. 2 <p style="text-align: center;">OR</p> <p>(B) Which term of the progressions will have the same value? 2</p>	
<p>37. A group of class X students goes to picnic during winter holidays. The position of three friends Aman, Kirti and Chahat are shown by the points P, Q and R</p>  <p>(i) Find the distance between P and R. 1</p> <p>(ii) Is Q, the midpoint of PR? Justify by finding midpoint of PR. 1</p> <p>(iii) (A) Find the point on x-axis which is equidistant from P and Q. 2</p> <p style="text-align: center;">OR</p> <p>(B) Let S be a point which divides the line joining PQ in ratio 2:3. Find the coordinates of S. 2</p> <p>For Visually Impaired Candidates:</p> <p>A group of class X students goes to picnic during winter holidays. Aman, Kirti and Chahat are three friends. The position of three friends Aman, Kirti and Chahat are shown by the points P, Q and R.</p> <p>The co-ordinates of P (2,5), Q (4,4) and R (8,3) are given.</p> <ol style="list-style-type: none"> (i) Find the distance between P and R. 1 (ii) Is Q the midpoint of PR? Justify by finding midpoint of PR. 1 (iii) (A) Find the point on x-axis which is equidistant from P and Q. 2 <p style="text-align: center;">OR</p> <p>(B) Let S be a point which divides the line joining PQ in ratio 2:3. Find the coordinates of S. 2</p>	

38.	<p>India gate (formerly known as All India war memorial) is located near Karthavya path. (formerly Rajpath) at New Delhi. It stands as a memorial to 74187 soldiers of Indian Army, who gave their life in the first world war. This 42m tall structure was designed by Sir Edwin Lutyens in the style of Roman triumphal arches. A student Shreya of height 1 m visited India Gate as a part of her study tour.</p> <p>i. What is the angle of elevation from Shreya's eye to the top of India Gate, if she is standing at a distance of 41m away from the India Gate? 1</p> <p>ii. If Shreya observes the angle of elevation from her eye to the top of India Gate to be 60°, then how far is she standing from the base of the India Gate? 1</p> <p>iii. (A) If the angle of elevation from Shreya's eye changes from 45° to 30°, when she moves some distance back from the original position. Find the distance she moves back. 2</p> <p style="text-align: center;">OR</p> <p>(B) If Shreya moves to a point which is at a distance of $\frac{41}{\sqrt{3}}$m from the India Gate, then find the angle of elevation made by her eye to the top of India Gate. 2</p>	
-----	---	--

*Please note that the assessment scheme of the Academic Session 2024-25 will continue in the current session i.e. 2025-26

SCIENCE – Code no. 086
SAMPLE QUESTION PAPER*
CLASS – X (2025-26)

Max. Marks: 80

Time Allowed: 3 hours

General Instructions:

- (i) This question paper consists of 39 questions in 3 sections. Section A is Biology, Section B is Chemistry and Section C is Physics.
- (ii) All questions are compulsory. However, an internal choice is provided in some questions. A student is expected to attempt only one of these questions.

Section – A		Marks
1	Select the group in which all organisms have the same mode of nutrition. A. Cuscuta, yeast, legumes, leeches and tapeworm B. Cactus, ticks, lice, leeches and cow C. Cuscuta, ticks, lice, leeches and tapeworm D. Cactus, grass, lice, lion and tapeworm	1
2	Which of the following options indicates the products formed after breakdown of the glucose in our muscle cells when there is lack of oxygen? A. Ethanol + carbon dioxide + Energy B. Lactic acid + Energy C. Lactic acid + carbon monoxide + Energy D. Carbon dioxide + Water + Energy	1
3	Which of the following is a correct combination of function and part of the brain? A. Posture and balance: Cerebrum B. Salivation: Medulla in midbrain C. Hunger: Pons in hindbrain D. Blood pressure: Medulla in hindbrain	1
4	The blood glucose level in a patient was very high. It may be due to inadequate secretion of: A. growth hormone from pituitary gland B. oestrogen from ovary C. insulin from pituitary gland D. insulin from pancreas	1
5	In a cross between black furred rabbit (B) and white furred rabbit (b), all offspring were found to have black fur. What can be inferred about the genetic makeup of the parent rabbits? A. BB X bb B. Bb X Bb C. Bb X bb D. bb X bb	1

**Please note that the assessment scheme of the Academic Session 2024-25 will continue in the current session i.e. 2025-26.*

6	<p>Which are the correct statements related to ozone?</p> <p>(i) Ozone layer helps in increasing the UV radiations reaching earth. (ii) Ozone is a deadly poison. (iii) Ozone layer shields the earth from UV radiations. (iv) Ozone layer prevents UV rays which cause skin cancer. (v) Ozone is formed with the help of Chlorofluorocarbons.</p> <p>A. (i), (ii), (iii) B. (ii), (iii), (iv) C. (iii), (iv), (v) D. (i), (iv), (v)</p>	1
7	<p>Which of the following human activities has resulted in an increase of non-biodegradable substances?</p> <p>A. Organic farming B. Increase in tree plantation C. Use of plastic as packaging material D. Composting of kitchen waste</p>	1
<p>The following two questions consist of two statements – Assertion (A) and Reason (R). Answer these questions by selecting the appropriate option given below:</p>		
<p>A. Both A and R are true, and R is the correct explanation of A. B. Both A and R are true, and R is not the correct explanation of A. C. A is true but R is false. D. A is false but R is true.</p>		
8	<p>Assertion (A): Tallness of a pea plant is controlled by an enzyme. Reason (R): The gene for that enzyme makes proteins which help the plant to be tall.</p>	1
9	<p>Assertion (A): Vulture will always have the least amount of pesticides in a food chain. Reason (R): Vulture occupies the last trophic level and it gets only 10% of energy of the previous trophic level.</p>	1
10	<p>Unlike animals, plants do not have any excretory products as they do not eat food. Comment upon the statement with justification.</p>	2
11	<p><u>Students to attempt either option A or B.</u></p> <p>A. How many chambers are there in the heart of the following organisms? How is mixing of oxygenated and deoxygenated blood prevented in their body?</p> <p>(i) Fishes (ii) Humans</p> <p style="text-align: center;">OR</p> <p>B. Explain the mechanism by which the water is transported in plants?</p>	2
12	<p>About 100 acres of forest land was declared as Natural reserve park. The following organisms were predominant in the Natural reserve park:</p>	2

**Please note that the assessment scheme of the Academic Session 2024-25 will continue in the current session i.e. 2025-26.*

	<p>rabbit, frog, grass, fish, fox, water insects, zebra, peacock, snake, trees, bird, owl, insects, tiger, vulture, duck.</p> <p>Create a food web comprising two separate food chains with different producers by using the above data.</p>	
13	Draw and explain how the nerve cells help in transmission of impulses?	3
14	<p>In a genetic experiment, plants with pure round green seeds (RRyy) were crossed with plants with wrinkled yellow seeds (rrYY).</p> <p>(i) Show the gametes formed when F1 was self-pollinated.</p> <p>(ii) A total of 144 seeds were produced which developed into saplings. Show the ratio in which these traits are independently inherited in these 144 saplings.</p>	3
15	<p>Neha consumed boiled sweet potatoes and boiled eggs for breakfast. Help her to understand some steps in the process of digestion of the food taken by her by answering the questions given below.</p> <p><u>Attempt either subpart A or B.</u></p> <p>A. Which of these food items is rich in proteins? In which part of the alimentary canal is the digestion of this component initiated? Name the enzymes, conditions required and the glands associated with the digestion here.</p> <p>OR</p> <p>B. Which of these food items contains fats? How is it digested?</p> <p>C. Which of these food items is rich in starch? How is its digestion initiated?</p> <p>D. The figure given below represents parts of the human alimentary canal. Which of these parts will have the maximum amount of digested food as soon as the process of digestion is completed?</p>	4

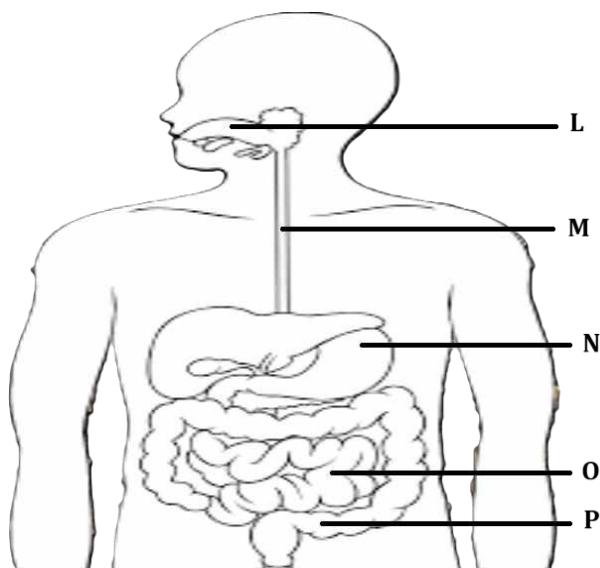


Figure: Human Alimentary canal

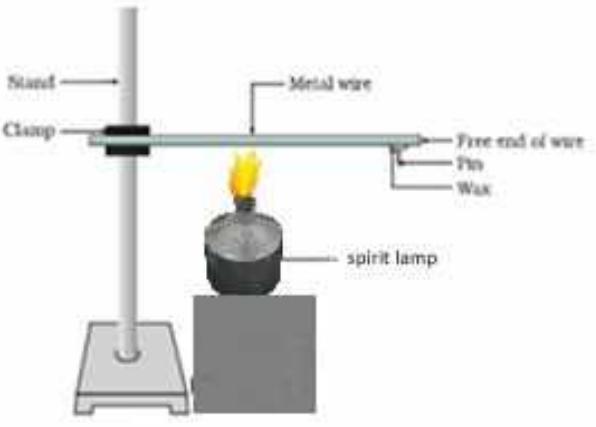
	<p><u>For visually impaired students</u></p> <p>D. How will the digested food be taken up by the alimentary canal?</p>	
16	<p><u>Attempt either option A or B.</u></p> <p>A. Puneet wanted to grow banana plants.</p> <p>(i) Based on your knowledge on plant reproduction should he opt for seeds or any alternate method of reproduction. Justify your answer.</p> <p>(ii) Offsprings of a banana plant usually show very little variation. What causes variation and are variations good or bad? Justify.</p> <p>OR</p> <p>B. Annie was conducting research on the number of fruits produced by watermelon under different conditions. She grew 25 watermelon plants each in both glass house A and B. She introduced pollinators in glass house A only.</p> <p>(i) What difference will she observe in the number of fruits produced in the two glass houses? Explain with reason.</p> <p>(ii) List 3 changes that will occur in a flower once it gets fertilized.</p>	5
Section – B		
17	<p>Which of the following equations represent redox reactions and what are the values for 'p' and 'q' in these equations?</p> <p>Equation 1: $\text{Fe}_2\text{O}_3(\text{s}) + 2\text{Al}(\text{s}) \longrightarrow \text{Al}_2\text{O}_3(\text{s}) + p \text{Fe}(\text{l}) + \text{heat}$</p> <p>Equation 2: $2\text{C}_4\text{H}_{10}(\text{g}) + 13\text{O}_2(\text{g}) \xrightarrow{\Delta} 8\text{CO}_2(\text{g}) + q \text{H}_2\text{O}(\text{g})$</p> <p>A. Only equation 1 is a redox reaction, p = 1 and q=3</p> <p>B. Both equations 1 and 2 are redox reactions, p= 2 and q=4</p> <p>C. Only equation 2 is a redox reaction, p= 2 and q= 10</p> <p>D. Both equations 1 and 2 are redox reactions, p= 2 and q=10</p>	1
18	<p>Four statements about the reactions of oxides with dilute hydrochloric acid and aqueous sodium hydroxide are listed.</p> <p>I. Aluminium oxide reacts with both dilute hydrochloric acid and aqueous sodium hydroxide.</p> <p>II. Calcium oxide reacts with dilute hydrochloric acid and aqueous sodium hydroxide.</p> <p>III. Zinc oxide reacts with both dilute hydrochloric acid and aqueous sodium hydroxide.</p> <p>IV. Sulphur dioxide does not react with either dilute hydrochloric acid or aqueous sodium hydroxide.</p> <p>Which statements are correct?</p> <p>A. I and II</p> <p>B. I and III</p> <p>C. II and IV</p> <p>D. III and IV</p>	1

19	<p>An iron nail is added to each of the two test tubes 'P' and 'Q' containing aqueous copper (II) sulphate, and aqueous silver nitrate respectively. Which of the following observation is correct?</p> <ol style="list-style-type: none"> In test tube 'P' iron nail is coated with a blue coating and in test tube 'Q' there is no reaction. Iron nail is coated with a brown coating in test tube 'P' and silver coating in test tube 'Q'. There is no reaction in either of the test tubes 'P' or 'Q'. There is no reaction in test tube 'P' but a silver coating on iron nail is seen in test tube 'Q'. 	1															
20	<p>Methyl orange is added to dilute hydrochloric acid and to aqueous sodium hydroxide. What is the colour of the methyl orange in each solution?</p> <table border="1"> <thead> <tr> <th>Sample</th> <th>colour in dilute hydrochloric acid</th> <th>colour in aqueous sodium hydroxide</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Orange</td> <td>Red</td> </tr> <tr> <td>B</td> <td>Red</td> <td>Yellow</td> </tr> <tr> <td>C</td> <td>Red</td> <td>Orange</td> </tr> <tr> <td>D</td> <td>Yellow</td> <td>Red</td> </tr> </tbody> </table>	Sample	colour in dilute hydrochloric acid	colour in aqueous sodium hydroxide	A	Orange	Red	B	Red	Yellow	C	Red	Orange	D	Yellow	Red	1
Sample	colour in dilute hydrochloric acid	colour in aqueous sodium hydroxide															
A	Orange	Red															
B	Red	Yellow															
C	Red	Orange															
D	Yellow	Red															
21	<p>Which of the following substances when dissolved in equal volume of water, will have the highest pH value?</p> <ol style="list-style-type: none"> Sulphuric acid Acetic acid Magnesium hydroxide Sodium hydroxide 	1															
22	<p>When excess of carbon dioxide is passed through lime water, the millessness disappears because</p> <ol style="list-style-type: none"> water soluble calcium carbonate converts to water soluble calcium bicarbonate. insoluble calcium carbonate converts to water soluble calcium bicarbonate. water soluble calcium carbonate converts to insoluble calcium bicarbonate. insoluble calcium carbonate converts to insoluble calcium bicarbonate. 	1															
23	<p>In the reaction of aqueous solution of barium chloride with aqueous solution of sodium sulphate, the aqueous solution formed will be:</p> <ol style="list-style-type: none"> BaCl_2 BaSO_4 Na_2SO_4 NaCl 	1															

The following question consists of two statements – **Assertion (A)** and **Reason (R)**. Answer these questions by selecting the appropriate option given below:

- Both A and R are true, and R is the correct explanation of A.
- Both A and R are true, and R is not the correct explanation of A.

C. A is true but R is false.
 D. A is false but R is true.

24	<p>Assertion (A): C_4H_8, C_4H_6 and C_4H_{10} are members of the same homologous series</p> <p>Reason (R): C_4H_8, C_4H_6, C_3H_4, C_3H_6, C_2H_4, C_2H_2 are unsaturated hydrocarbons.</p>	1
25	<p>The following activity is set-up in the science lab by the teacher. He clamped an aluminium wire on a stand and fixed a pin to the free end of the wire using wax. Then he heated the wire with a burner from the end where the wire is clamped. Students observed the pin fall off.</p>  <p>A. If the teacher replaces aluminium wire by silver wire, will the students' observation change? Justify your answer. B. Will the aluminium wire melt? Give reason for your answer.</p>	2
26	<p><u>Attempt either option A or B.</u></p> <p>A. An element 'X' is stored in kerosene, and cannot be extracted from its ore using a reducing agent. 'X' forms an ionic compound on reaction with chlorine.</p> <p>(i) Can we store 'X' in water? Give reason to support your answer. (ii) Identify element 'X'. Name the process used and write the equation for extraction of 'X' from its ore.</p> <p style="text-align: center;">OR</p> <p>B. The domes of many buildings in Europe are made of copper. These domes now appear greenish in colour.</p> <p>(i) Why do the domes appear greenish though copper is orange-red in colour? (ii) In your opinion, should the copper domes be replaced by iron domes to overcome the problem of change of colour of copper domes? (iii) Domes used to be made from thin sheets of metals. Why did the ancient architects use copper to make domes?</p>	3
27	Amrita electrolysed distilled water using the set-up shown in figure 1. She was expecting two gases to be evolved at the anode and cathode respectively	3

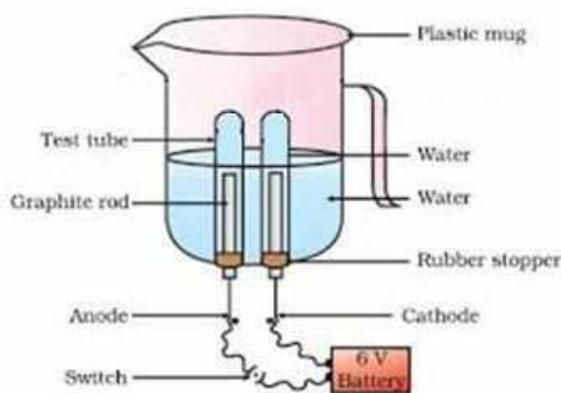


Fig.1

Suddenly, she realised that the bulb in the circuit did not glow when she used distilled water (figure 2)

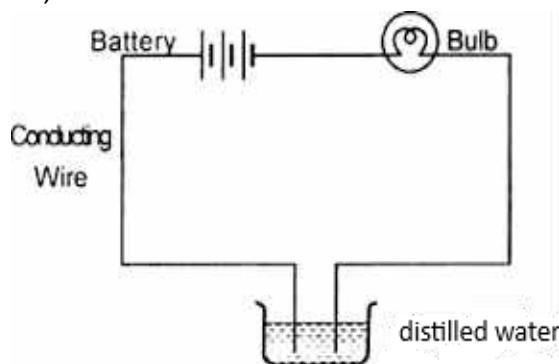


Fig. 2

After this realization, she added a substance to the distilled water for electrolysis to take place.

Answer the following questions based on the information given above:

- Which gas was she expecting to be formed at the anode and which one at the cathode respectively?
- Why did the bulb not glow when Amrita passed electricity through distilled water?
- Which substance was added by Amrita to distilled water to get the expected result?

For visually impaired students

Identify the type of reaction:

- $ZnO + C \longrightarrow Zn + CO$
- $ZnCO_3 \xrightarrow{\text{heat}} ZnO + CO_2$
- $2Mg + O_2 \longrightarrow 2 MgO + \text{heat}$

28	Sara took 2 mL of dilute NaOH solution in a test tube and added two drops of phenolphthalein solution to it. The solution turned pink in colour. She added dilute H_2SO_4 to the above solution drop by drop until the solution in the test tube became colourless. 40 drops of dilute H_2SO_4 were used for the change in	4
----	--	---

colour from pink to colourless. When Sara added a drop of NaOH to the solution, the colour changed to back to pink again.

Sara now tried the activity with different volumes of NaOH and recorded her observation in the table given below:

S. No.	Volume of dil. NaOH taken (mL)	Drops of dil. H_2SO_4 used
1	2	20
2	3	30
3	4	40

Answer the following questions based on the above information:

A. If Sara used concentrated H_2SO_4 in place of dilute H_2SO_4 , how many drops will be required for the change in colour to be observed?

- (a) 40
- (b) < 40
- (c) > 40

Justify your answer.

B. Sara measured 20 drops of dil. H_2SO_4 and found its volume to be 1 mL. If Sara observed a change in colour of NaOH solution by using 3 mL of H_2SO_4 , how many mL of NaOH did she add to the test tube initially?

OR

Sara takes 10 drops of dilute H_2SO_4 in the test tube and adds two drops of phenolphthalein solution to it. Then she adds NaOH dropwise. Sara observes a change in colour after adding 20 drops of NaOH. What change in colour would she observe and why?

C. Write a balanced chemical equation for the reaction taking place in the above experiment. Which of the following is true and why? The reaction is a

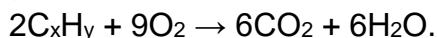
- (a) neutralisation and double displacement reaction
- (b) neutralisation and precipitation reaction
- (c) precipitation and double displacement reaction
- (d) neutralisation, double displacement as well as precipitation reaction.

29

Attempt either option A or B.

5

A. A hydrocarbon with the formula C_xH_y undergoes complete combustion as shown in the following equation:

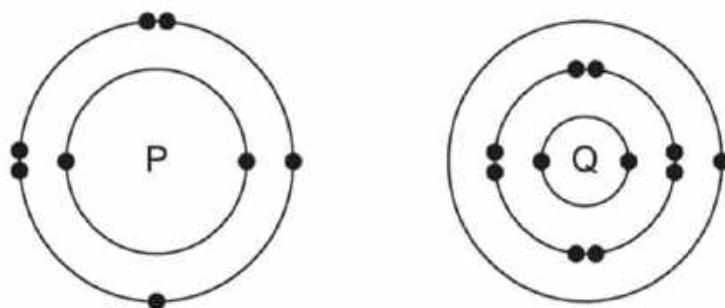


- (a) What are the values of 'x' and 'y'?
- (b) Give the chemical (IUPAC) name of the hydrocarbon.
- (c) Draw its electron dot structure.
- (d) Name the alcohol which on heating with conc. H_2SO_4 will produce the above hydrocarbon C_xH_y .

(e) Write a balanced chemical equation for the reaction of C_xH_y with hydrogen gas in presence of Nickel.

OR

B. The electronic structures of atoms P and Q are shown below

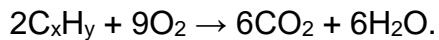


Based on the information given above, answer the following questions:

- If P and Q combine to form a compound, what type of bond is formed between them?
- Give the chemical formula of the compound formed.
- The compound so formed is dissolved in water. Is the resultant solution acidic or basic in nature? Justify your answer.
- Write the chemical equation for the reaction between 'Q' and ethanol.
- What will be the formula of the compound formed when 'P' undergoes bonding with carbon?

For visually impaired students

A. A hydrocarbon with the formula C_xH_y undergoes complete combustion as shown in the following equation:



- What are the values of 'x' and 'y'?
- Give the chemical (IUPAC) name of the hydrocarbon.
- Is C_xH_y a saturated or an unsaturated hydrocarbon?
- Name the alcohol which on heating with conc. H_2SO_4 will produce the above hydrocarbon C_xH_y .
- Write a balanced chemical equation for the reaction of C_xH_y with hydrogen gas in presence of Nickel.

OR

B. Oxygen can combine with both metals and non-metals. It combines with Calcium to form CaO and with carbon to form CO_2 .

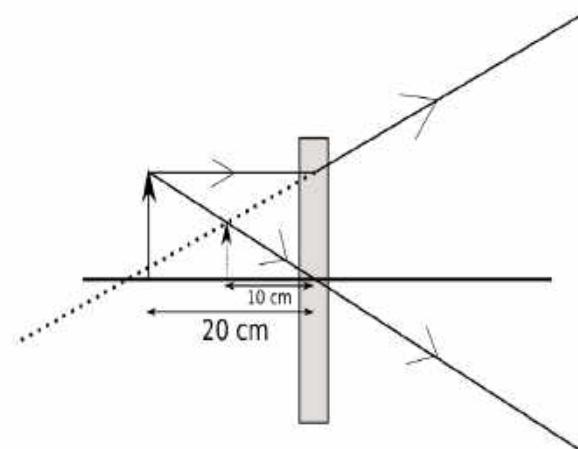
- What type of bond is formed between carbon and oxygen?
- Identify the type of bond formed between Calcium and oxygen.
- Which of the above compounds will be a good conductor of electricity in molten state and why?
- Comment on the physical state (solid, liquid or gas) of CaO and CO_2 .
- What is the valency of carbon in CO_2 ?

Section – C

30	<p>Arnav was making notes and he wrote down the following statements from his understanding of reflection from curved surfaces.</p> <ol style="list-style-type: none"> I. Concave mirrors can produce both real and virtual images depending on the position of the object. II. Convex mirrors always produce real, inverted images regardless of the object's position. III. In both concave and convex mirrors, the image location can be determined using the mirror formula $\frac{1}{f} = \frac{1}{v} + \frac{1}{u}$ where f is the focal length, v is the image distance, and u is the object distance. <p>Choose from the following the correct option that lists the correct statements about reflection from curved surfaces.</p> <ol style="list-style-type: none"> A. I and II B. I, II and III C. II and III D. I and III 	1
31	<p>Choose the correct option from the below which explains the reason for us to perceive the day sky as blue.</p> <ol style="list-style-type: none"> A. As sunlight passes through the atmosphere, shorter wavelengths, such as blue are scattered more than other colors. B. The sky appears blue because all colors are scattered equally, but blue light is stronger and more visible to the human eye. C. The blue color of the sky is due to longer wavelengths like red and orange scattering more than shorter wavelengths, making blue stand out more. D. The atmosphere contains blue-colored particles that give the sky its blue appearance. 	1
<p>The following question consists of two statements – Assertion (A) and Reason (R). Answer these questions by selecting the appropriate option given below:</p> <ol style="list-style-type: none"> A. Both A and R are true, and R is the correct explanation of A. B. Both A and R are true, and R is not the correct explanation of A. C. A is true but R is false. D. A is false but R is true. 		
32	<p>Assertion (A): A point object is placed at a distance of 26 cm from a convex mirror of focal length 26 cm. The image will not form at infinity.</p> <p>Reason (R): For above given system the equation $\frac{1}{f} = \frac{1}{v} + \frac{1}{u}$ gives $v = \infty$.</p>	1

33

2



The above image shows the formation of an image with an optical instrument.

- Identify the optical instrument (shown schematically as a rectangle) in the image.
- What type of image is formed in this case?
- Based on the measurements given in the image, calculate the focal length of the instrument.

For visually impaired students

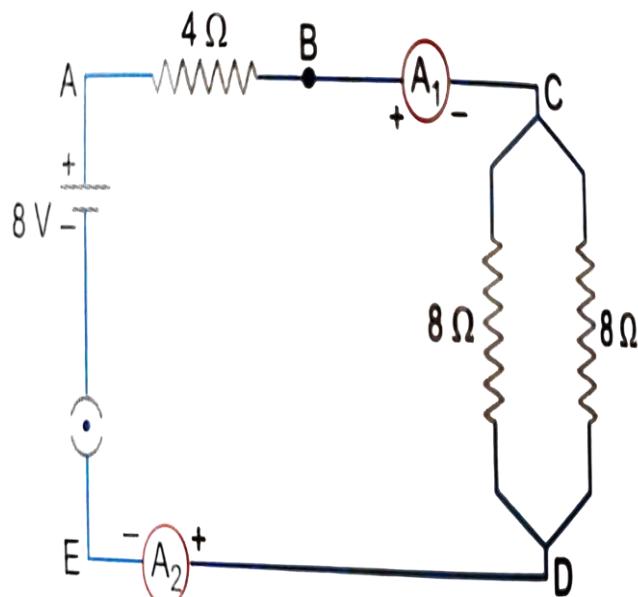
- Under what conditions can a convex lens form a virtual image?
- Why does a piece of paper catch fire if we allow sunlight to pass through a convex lens onto the paper?

34

2

Attempt either option A or B.

A.

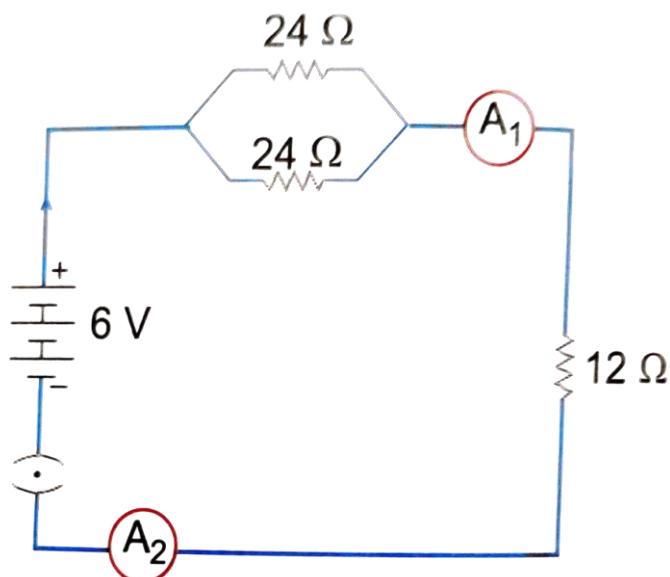


Find out the following in the electric circuit given in the figure-

- Effective resistance of two 8 ohm resistors in the combination.
- Current flowing through the 4-ohm resistor

OR

B.



Study the circuit and find out-

- Current in 12 ohm resistor
- Difference in the readings of ammeter A_1 and A_2 if any

For visually impaired students

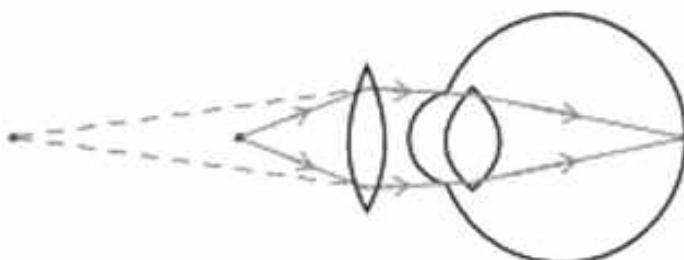
A. You are given four resistors each having resistance of R ohm. Find the maximum and minimum resistance that can be made with these four resistors.

OR

B. A copper wire has a length $L=2$ m, a cross-sectional area $A=0.5$ mm 2 , and resistivity $\rho=1.7 \times 10^{-8}$ $\Omega\text{-m}$. Calculate the resistance of another wire made of the same material whose length is twice the length of the wire but has the same cross-sectional area.

35

3

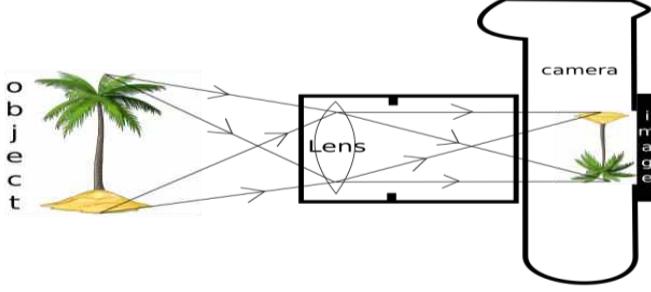


The above image shows a corrective measure for a particular defect of vision.

- Identify the defect of vision and state what kind of lens is used to correct this deficiency.
- Draw and label a ray diagram that shows the defect of vision in the above case before correction.

For visually impaired students

- What is dispersion of light?

	<p>(ii) Explain the condition under which dispersion happens? (iii) Give one reason that causes presbyopia.</p>	
36	<p>A student needs to make a $0.12\ \Omega$ resistor. She has some copper wire of 0.80 mm diameter. Resistivity of copper is $1.8 \times 10^{-8}\ \Omega\text{m}$</p> <p>(i) Determine the cross-sectional area of the wire. (ii) Calculate the length of wire required for the $0.12\ \Omega$ resistor.</p>	3
37	<p>Magnetic field lines are shown in the given diagram. A student makes a statement that the magnetic field at X is stronger than at Y.</p> <p>(i) Explain with reason if the student's claim is correct. (ii) Also redraw the diagram and mark the direction of magnetic field lines.</p> 	3
38	  <p>The above image is that of a Digital Single Lense Reflector (DSLR) Camera which are used to take high resolution photographs by professional photographers. The second image of the above two is a schematic diagram of how an image is formed on the sensor of the camera. Based on your understanding of the lenses, answer the following questions.</p> <p>A. What type of lens is used in the DSLR camera shown in the image? B. What type of image is formed on the sensor? <u>Attempt either subpart C or D.</u> C. A photographer is using a DSLR camera with a lens of focal length $f=50\text{ mm}$ to take a close-up photograph of a small object. The lens projects an image onto the camera sensor that is located 60 mm behind the lens. Calculate the object distance (i.e., the distance between the object and the lens).</p>	4

OR

D. A photographer is using a DSLR camera to take a picture of a flower. The flower is positioned 150 mm away from the camera lens. The actual height of the flower is 80 mm, and the image height formed on the camera's sensor is measured to be 20 mm. Calculate the focal length of the camera lens.

For visually impaired students

Zarina worked as an apprentice in a factory where flashlights and solar cookers are made. She learnt to make the circuits, the design of the light-box and light concentrators of the solar cookers as well. She learnt the uses of lenses in making all those tools. Based on your understanding of lenses, answer the following questions.

A. What kind of lenses are used in the flashlight and light concentrator of the solar-cooker?
B. Give reasons for your choices in your answer for part A.

Attempt either subpart C or D.

C. An object is placed 40 cm away from a lens which is normally used in a solar-cooker. The image formed is twice the size of the object. Calculate the focal length of the lens.

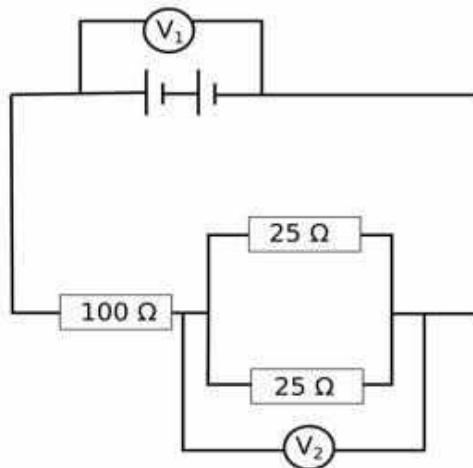
OR

D. An object is placed 20 cm in front of a lens which is used in a flashlight, and the image is formed 10 cm away from the lens on the same side as the object. Calculate the focal length of the lens.

39

Attempt either option A or B.

A.



5

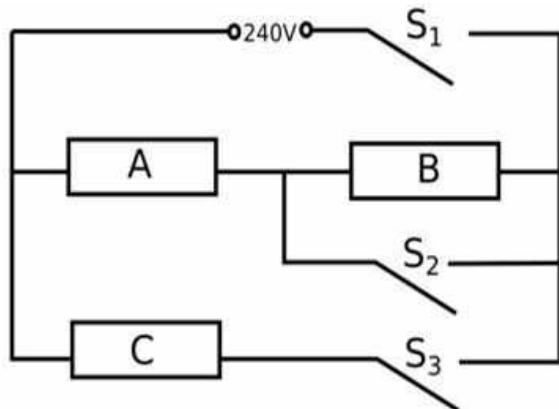
The arrangement of resistors shown in the above figure is connected to a battery.;

The power dissipation in the 100 Ω resistor is 81 W. Calculate

- the current in the circuit
- the reading in the voltmeter V2
- the reading in the voltmeter V1

OR

B.



An electric heater consists of three similar heating elements A, B and C, connected as shown in the figure above. Each heating element is rated as 1.2 kW, 240 V and has constant resistance. S_1 , S_2 and S_3 are respective switches.

The circuit is connected to a 240 V supply.

- (i) Calculate the resistance of one heating element.
- (ii) Calculate the current in each resistor when only S_1 and S_3 are closed.
- (iii) Calculate the power dissipated across A when S_1 , S_2 and S_3 are closed.

For visually impaired students

A.

- (i) Explain why in household circuits only the fuse is connected in series with all the rest of the appliances but all appliances are connected in parallel to each other.
- (ii) In a household circuit, an electric heater of power 1500 W and a fan of power 500 W are connected in parallel to a 220 V supply. A fuse rated for 10 A is connected to the circuit to protect it from excessive current.
 - (a) Calculate the total current drawn by the heater and the fan.
 - (b) Determine whether the 10 A fuse is appropriate for this circuit or if it will blow.

OR

B. Two resistors, $R_1=6\Omega$ and $R_2=12\Omega$, are connected in parallel to a 24V battery. The circuit operates for 5 minutes.

- (i) Calculate the total heat generated in both resistors.
- (ii) If each resistor has a power rating of 100 W, determine whether it is safe to use these resistors in the circuit.

SOCIAL SCIENCE-Code- 087
SAMPLE QUESTION PAPER
CLASS: X (2025-26)

Time Allowed: 3 Hours

Maximum Marks: 80

General Instructions:

1. There are 38 questions in the Question paper. All questions are compulsory.
2. The question paper has Four Sections – A-History, B-Geography C- Political Science, and D- Economics.
3. Each Section is of 20 Marks and has MCQs, VSA, SA, LAs and CBQ.
4. Very Short Answer Type Questions (VSA), carry 2 marks each. Answers to each question should not exceed 40 words.
5. Short Answer Type Questions (SA), carry 3 marks each. Answers to each question should not exceed 60 words.
6. Long answer type questions (LA), carry 5 marks each. Answers to each question should not exceed 120 words.
7. There are case based questions (CBQ) with three sub questions and are of 4 marks each. Answers to each question should not exceed 100 words.
8. The map-based questions, carry 5 marks with two parts- Q9. In Section A-History (2 marks) and Q19. In Section B -Geography (3 marks)
9. There is no overall choice in the question paper. However, an internal choice has been provided in few questions. Only one of the choices in such questions must be attempted.
10. In addition to this, NOTE that a separate question has been provided for Visually Impaired candidates in lieu of questions having visual inputs, map etc. Such questions are to be attempted by Visually Impaired candidates only.

Sr.No	SECTION A HISTORY (20 marks)	Marks
--------------	---	--------------

1. Match the following and Choose the correct option: 1

	COLUMN I		COLUMN II
A	Frederic Sorrieu	1	Torch of enlightenments
B	Statue of Liberty	2	Shattered remains of absolutist Institutions
C	Foreground in front of the Statue of Liberty	3	Democratic and Social Republics
D	Sorrieu's utopian vision.	4	French Artist

1.A-4, B-1, C-2, D-3
2.A-2, B-4, C-4, D-1
3.A-1, B-2, C-4, D-3
4.A-4, B-1, C-3, D-4

2. Identify and name the leader shown in the picture given below: -

1



Source-India and the Contemporary World-II, NCERT

- A. Lala Lajpat Rai
- B. Bal Gangadhar Tilak
- C. Gopal Krishan Gokhale
- D. Raja Rammohan Roy

Note: The following question is for Visually Impaired Candidates only in lieu of Q. No. 2

Which one option from the following is the appropriate reason for the formation of the Swaraj party?

- A. To ask for Poorna Swaraj for Indians.
- B. To return to Council Politics.
- C. To ask Dominion State for India.
- D. To oppose Simon Commission.

3. Thousands of people fled Europe for America in the 19th century due to -

1

- A. Widespread poverty and deadly diseases
- B. Frequent famines and poor living conditions
- C. Continuous wars and political instability
- D. Harsh climate and repeated natural disasters

4. Louise-Sebastien Mercier proclaimed “Tremble, therefore, tyrants of the world! Tremble before the virtual writer!” Who are referred to as the tyrants in this context?

1

- A. Educated classes who wanted to change the society
- B. Absolutist institutions like monarchy and church
- C. Authors of the new books
- D. Printing press

5A. "The Silk route was a good example of vibrant pre-modern trade and cultural links between distant parts of the world." Explain the statement with any two examples. 2

OR

5B. 'Sometimes the new crops could make the difference between life and death.'. Explain the statement with any two examples.

6 A. 'A variety of cultural processes played an important role in developing a sense of nationalism in India'. Support the statement with suitable examples. 3

OR

6 B. Salt March 'became an effective tool of resistance against colonialism.' Analyse the statement with suitable reasons.

7A. 'In Britain the formation of the nation-state was not the result of a sudden upheaval or revolution but was the result of a long-drawn-out process.' Analyse this statement with suitable reasons. 5

OR

7B. 'The Treaty of Vienna was drawn up in 1815 with the object of undoing most of the changes that had come about in Europe during the Napoleonic wars.' Highlight the significant provisions of this treaty.

8. **Read the given text and answer the following questions:(4)**

Why Newspapers?

Krishnaji Trimbuck Ranade inhabitant of Poona intends to publish a Newspaper in the Marathi Language with a view of affording useful information on every topic of local interest. It will be open for free discussion on subjects of general utility, scientific investigation and the speculations connected with the antiquities, statistics, curiosities, history and geography of the country and of the Deccan especially... the patronage and support of all interested in the diffusion of knowledge and Welfare of the People is earnestly solicited.

Bombay Telegraph and Courier, 6 January 1849

"The task of the native newspapers and political associations is identical to the role of the Opposition in the House of Commons in Parliament in England. That is to critically examine government policy to suggest improvements, by removing those parts that will not be to the benefit of the people, and also by ensuring speedy implementation.

These associations ought to carefully study the particular issues, gather diverse relevant information on the nation as well as on what are the possible and desirable improvements, and this will surely earn it considerable influence".

Source: Native Opinion, 3 April 1870

8.1. Explain the main reason for publishing newspapers by Krishna ji. 1

8.2. How was the task of native newspaper and political association seen identical to the role of the opposition?	1
8.3. Analyze the reasons for the popularity of newspapers during the 19th century.	2

MAP SKILL-BASED QUESTION (2 marks)

9. Two places A and B have been marked on the given outline map of India. Identify them and write their correct names on the lines marked on the map. **(1+1=2)**

A) The place where the Civil Disobedience Movement was launched.
 B) The city where Indian National Congress session was held in September 1920.

Note: The following question is for Visually Impaired Candidates only in lieu of Question 9.

A) The place where the Civil Disobedience Movement was launched.
 B) The place where Indian National Congress session was held in September 1920

SECTION B GEOGRAPHY (20 marks)

10. What is essential for resource development to contribute to overall development? **1**

A. The availability of resources alone is enough.
 B. The presence of foreign invaders and their governance.
 C. Technological development and institutional changes.
 D. Only human resources can contribute to development.

11. Identify the appropriate option to fill in the empty boxes: **1**

Classification of Soils

Alluvial	?	?
Ideal for the growth of sugarcane, paddy, wheat and other cereal and pulse crops.	Ideal for growing cotton	suitable for crops like cashew nut.

A. Black soil, Red and Yellow soils
 B. Laterite soil, Black soil.
 C. Red & Yellow soils & Black soil.
 D. Black soil & Laterite soil.

12. A total of 628 tigers died in India during the past five years due to natural causes and other reasons, including poaching, according to government data. Meanwhile, 349 people were killed in tiger attacks during this period, with one state alone recording 200 deaths. 1

[source: <https://www.ptinews.com/story/national/628-tigers-died-in-india-in-past-five-years-govt-data/1685133/>]

Which of the following is the most significant indirect consequence of poaching on the tiger population?

- Reduction in the prey species, dwindling tiger's food supply.
- Increase in human-wildlife conflicts in protected areas
- Rise in the tiger population.
- Decrease in tourism revenue in national parks

13. Based on the classification of forests, which of the following statements would most likely apply to places like Jammu and Kashmir, Andhra Pradesh, and Kerala etc.? 1

- These places mostly have forests managed as reserved or protected forests for conservation.
- They rely on unclassed forests and local community management for forest conservation.
- They have forest resources and primarily focus on industrial development.
- There are no classified forests and forest management is entirely left to private ownership.

14. Which one of the following states has made roof top water harvesting compulsory in India? 1

- Haryana
- Punjab
- Assam
- Tamil Nadu.

15. Which of the following statements best evaluates the overall goal of the *Pradhan Mantri Krishi Sinchaaee Yojana*? 1

- Addressing the negative ecological effects of large dams by reducing water usage.
- To provide better irrigation systems and sustainable water conservation practices for farmers.
- Shifting farmers from traditional crops to more commercial, water-intensive crops.
- Preserve the natural river flow and prevent the fragmentation of aquatic ecosystems.

16. Rice is grown as a commercial crop in Haryana and Punjab, but as a subsistence crop in Odisha. Using your understanding of geographical factors and economic practices, explain why rice cultivation differs in these regions. 2

17A. Person P is willing to establish a mineral based industry. He has been advised to set up a bauxite industry in Odisha as a suitable way to make a profitable venture. Analyse the possible reasons behind the advice given to her. 5

OR

17B. 'Coal is the most important and abundant fossil fuel in India.' Justify the statement by evaluating the significant role it plays in the growth of the Indian economy in its different forms.

18. Read the given text and answer the following questions: (1+2+1=4)

4

Global pollution is rising due to rapid economic growth, population increases, and insufficient environmental management. This poses serious health risks for people and ecosystems, particularly in low- and middle-income countries. Contributing to these challenges, the global economy relies on deeply intertwined supply chains, sustained by more than 100 billion tons of raw materials entering the system each year. Intensive material consumption depletes natural resources and causes negative environmental impacts at every stage of the product lifecycle. Global waste is expected to increase to 3.4 billion tons by 2050.

Pollution of all types hinders development outcomes. Exposure to air pollution, water pollution, and hazardous chemicals and wastes like mercury, lead and persistent organic pollutants (POPs) causes debilitating and fatal illnesses, creates harmful living conditions, and destroys ecosystems. Pollution undermines sustainable economic growth, exacerbates poverty and inequality in both urban and rural areas, and significantly contributes to climate change. Poor people, who cannot afford to protect themselves from the negative impacts of pollution, end up suffering the most. Pollution is the largest environmental cause of disease and premature death. It is estimated to be several times more deaths than from AIDS, tuberculosis, and malaria combined. Global health crises, such as the COVID-19 pandemic, are reminders of the strong linkages between environment and health and of the need to address such linkages systematically.

[Source: <https://www.worldbank.org/en/topic/pollution>]

18.1 Why do you think is global waste expected to increase by 2050?
18.2 How do manufacturing industries cause pollution of different types? Explain with examples.
18.3 Is it correct to consider pollution as a possible cause for worsening of the current global trends of poverty and inequality? Justify.

MAP SKILL-BASED QUESTION (3 marks)

19. On the same outline map of India locate and label the following with suitable symbols: 1

I.(p) The dam in the Sutlej-Beas river basin, which is being used both for hydel power production and irrigation.

OR

(q) The dam in the Mahanadi basin that integrates conservation of water with flood control.

II. Any two of the following:

(1x2=2)

- (i) A major sea port in West Bengal
- (ii) An international airport in Tamil Nadu
- (iii) An international airport in Punjab

Note: The following question is for Visually Impaired Candidates only in lieu of Q. No. 19.

b) Answer **any three** of the following:

- i Name the dam in the Mahanadi basin that integrates conservation of water with flood control.
- ii Specify the name of a major sea port in West Bengal.
- iii Name an international airport in Tamil Nadu.
- iv State the name of an international airport in Punjab.

SECTION C POLITICAL SCIENCE (20 marks)

20. Which of the following statement(s) are true with respect to the ethnic composition of Belgium? 1

- I. 59 percent of the total population of Belgium lives in the Wallonia region and speaks French.
- II. 40 percent live in the Flemish region and speak Dutch.
- III. One percent of the Belgians speak German.
- IV. In the capital city Brussels, 80 percent people speak French while 20 per cent are Dutch speaking.

Choose the correct option:

- A. I and II
- B. III and IV
- C. I, II and III
- D. I and IV

21. The cartoon below depicts Germany's government that was formed after the 2005 elections. It included the two major parties of the country, namely the Christian Democratic Union and the Social Democratic Party. The two parties are historically competing with each other. Which of the following options best explains the cartoon? 1



Source-Democratic Politics, NCERT

- A. Coalition Government.
- B. Two Party System.
- C. Democratic government.
- D. Bi-party system.

Note: The following question is for Visually Impaired Candidates only in lieu of Q. No. 21

Consider the following statements on Power Sharing and choose the correct statement(s) -

- I. Imposing the will of the majority community over others.
- II. It helps in reducing the possibility of conflict between the social groups.
- III. Power Sharing is a good way to ensure the stability of political order.
- IV. It brings socio- political opposition among parties.

Choose the correct option:

- A. I and II
- B. I and III
- C. II and IV
- D. II and III

22. Consider the following case and choose the correct option- 1

Suppose the Government of India plans to issue new currency notes of different denominations in order to curb the influence of black money. The Government of one state is opposed to this policy of the Central Government. Can the state government stop the union government from implementing this policy?

- A. Yes, because Currency is the subject of State List
- B. No, because Currency is a subject of Union List
- C. Yes, because the approval of both the governments is necessary to implement this change.
- D. No, because any such change must be approved by the local government also.

23. Two statements are given as Assertion (A) and Reason(R). Study the statements carefully and identify the correct alternative: 1

ASSERTION (A): Exclusive attention to caste can produce negative results in democracy.

REASON (R): It can divert attention from other important issues thus leading to tensions, conflicts and even violence.

Choose the correct option:

- A. Both A and R are true, and R is the correct explanation of A.
- B. Both A and R are true, but R is not the correct explanation of A.
- C. A is true but R is false.
- D. A is false but R is true

24. Highlight any two key features of federalism. 2

25. 'Women in India face discrimination, disadvantages and oppression in many ways.' Highlight any two aspects of life where you witness this inequality. 2

26. 'Democracy leads to peaceful and harmonious life among citizens in every sphere.' Support this statement with suitable arguments. 3

27A. 'Political parties play a significant role in the effective working of a democracy.' Explain. 5

OR

27B. Analyse how the issue of leadership succession poses a challenge to political parties in India. 4

28. **Read the given text and answer the following questions:(1+1+2=4)**

Sri Lanka emerged as an independent country in 1948. The leaders of the Sinhala community sought to secure dominance over government by virtue of their majority. As a result, the democratically elected government adopted a series of MAJORITARIAN measures to establish Sinhala supremacy. Over the years, it created feelings of alienation among the Sri Lankan Tamils. They felt that none of the major political parties led by the Buddhist Sinhala leaders was sensitive to their language and culture. As a result, the relations between the Sinhala and Tamil communities strained over time. On the other hand, the Belgian leaders took a different path. They recognised the existence of regional differences and cultural diversities. Between 1970 and 1993, they amended their constitution four times to work out an arrangement that would enable everyone to live together within the same country.

Source-Adapted from Power Sharing, NCERT

28. 1 State any two demands of Tamils in Sri Lanka.
 28. 2 State the results of the Majoritarian Government in Sri Lanka.
 28. 3 Explain any two provisions of the Belgian model of power sharing.

SECTION D ECONOMICS (20 marks)

29. Underemployment is caused when - 1

- More workers are employed than actually required
- Fewer workers are employed than actually required
- Workers are paid more than their actual output
- Jobs are given only to highly educated workers

30. What can be inferred about the limitations of using per capita income (average income) to compare well-being across countries? Choose the correct option as the answer. 1

- A. It shows how equally or unequally income is distributed among the people in a country.
- B. The only measure needed to understand a country's development is Per capita income.
- C. It gives a basic idea of economic well-being but hides the income inequality.
- D. It only reflects the industrial growth of a country and does not consider other important factors.

31. Which of the following examples best demonstrates how the tertiary sector supports both the primary and secondary sectors? 1

- A. Farmers grow vegetables and sell them directly to consumers, with no transportation or storage involved.
- B. A factory makes shoes and uses raw materials like leather to create the product, relying on transport and retail stores to distribute the shoes.
- C. A bakery bakes bread and uses delivery services to send the bread to local shops for sale, without any direct involvement of raw materials.
- D. A company produces furniture from wood, but does not require any transport or retail services to sell the product.

32. Which one of the following issues currency notes in India? 1

- A. Finance Ministry.
- B. Reserve Bank of India.
- C. State Bank of India.
- D. Central Bank of India.

33. Person Z tries to explain how the requirement of a double coincidence of wants in a barter system limits trade and exchange. Which of the following justification do you think will be used by him/her? 1

- A. It makes trade more complicated, as each person must have what the other person wants, limiting the pool of potential trade partners.
- B. The barter system allows trade to be conducted more efficiently since both parties already know what they need from the transaction.
- C. It increases the number of exchanges because each person can trade for exactly what they want.
- D. The system creates value for goods by ensuring that both parties have a direct need for each other's goods.

34. Recognize and choose the option that correctly matches the effects and consequent outcomes of globalization. 1

Column A (Effects of globalisation)	Column B (Outcomes)
1. Increased foreign investment	i. Expansion of global markets and access to technology
2. Cultural exchange and awareness	ii. Loss of traditional jobs due to automation and cheaper labor elsewhere
3. Technological exchange and awareness	iii. Spread of cultural practices, ideas, and values across borders
4. Growth of multinational corporations	iv. Large companies becoming dominant players in global markets

Choose the correct option:

- A. 1-iii, 2-ii, 3-i, 4-iv
- B. 1-iv, 2-ii, 3-i, 4-iii
- C. 1-ii, 2-iv, 3-iii, 4-i
- D. 1-i, 2-iii, 3-ii, 4-iv

35. Evaluate the utility of public services in contributing to the overall well-being of individuals and society. 3

36. 'Expanding access to loans in the formal sector is important, yet it is equally critical that these loans are accessible to all people for national development.' Justify the statement. 3

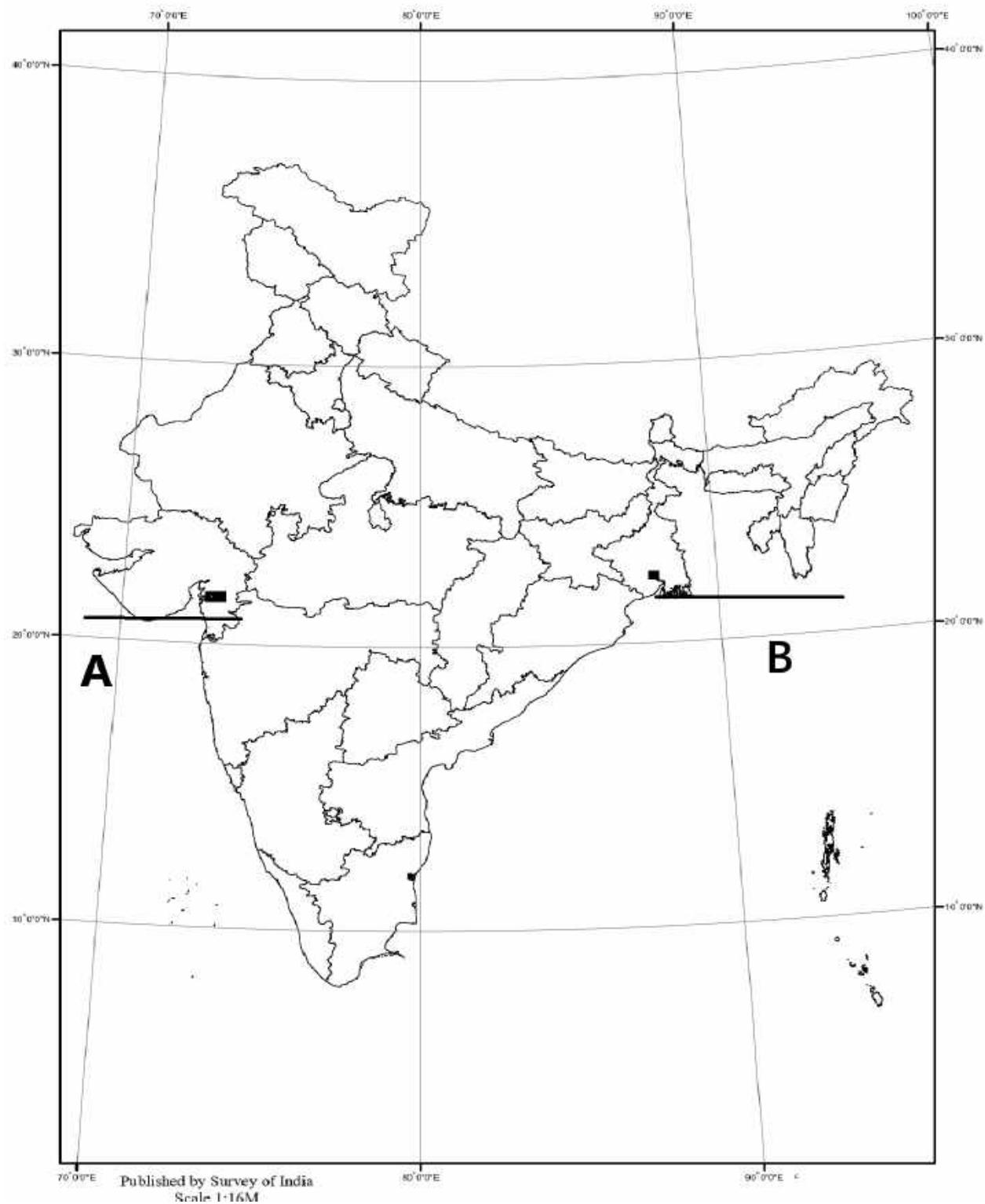
37. Highlight the significant three factors that have contributed to the growth of globalisation. 3

38A. A research student spoke with two people, M and N to learn about their work-related differences. On the basis of the interview conducted with both of them, the student concludes that while person M was working in an organized sector, person N was an employee of a workplace that was functioning in an unorganized way. Analyse the key differences between the two sectors that must have enabled the research student to come to this conclusion. 5

OR

38B. Privatisation can have both positive and negative effects on the economy. Support the statement with argument.

Map for Q. no. 9 (Section A) & Q. no. 19 (Section B)



Published by Survey of India
Scale 1:16M

CBSE | DEPARTMENT OF SKILL EDUCATION

Information Technology (SUBJECT CODE - 402)

Blue-print for Sample Question Paper for Class X (Session 2025-2026)

Max. Time: 2 Hours

Max. Marks: 50

PART A - EMPLOYABILITY SKILLS (10 MARKS):

UNIT NO.	NAME OF THE UNIT	OBJECTIVE TYPE QUESTIONS	SHORT ANSWER TYPE QUESTIONS	TOTAL QUESTIONS
		1 MARK EACH	2 MARKS EACH	
1	Communication Skills - II	1	1	2
2	Self-Management Skills - II	2	1	3
3	ICT Skills - II	1	1	2
4	Entrepreneurial Skills - II	1	1	2
5	Green Skills - II	1	1	2
TOTAL QUESTIONS		6	5	11
NO. OF QUESTIONS TO BE ANSWERED		Any 4	Any 3	07
TOTAL MARKS		1 x 4 = 4	2 x 3 = 6	10 MARKS

PART B - SUBJECT SPECIFIC SKILLS (40 MARKS):

UNIT NO.	NAME OF THE UNIT	OBJECTIVE TYPE QUESTIONS	SHORT ANSWER TYPE QUESTIONS	DESCRIPTIVE/ LONG ANS. TYPE QUESTIONS	TOTAL QUESTIONS
		1 MARK EACH	2 MARKS EACH	4 MARKS EACH	
1	Digital Documentation (Advanced)	6	1	1	8
2	Electronic Spreadsheet (Advanced)	6	2	1	9
3	Database Management System	6	1	2	9
4	Maintain Health, Safety and Secure Working Environment	6	2	1	9
TOTAL QUESTIONS		24	6	5	35
NO. OF QUESTIONS TO BE ANSWERED		20	Any 4	Any 3	27
TOTAL MARKS		1 x 20 = 20	2 x 4 = 8	4 x 3 = 12	40 MARKS

CBSE | DEPARTMENT OF SKILL EDUCATION

Information Technology (SUBJECT CODE - 402)

Blue-print for Sample Question Paper for Class X (Session 2025-2026)

Max. Time: 2 Hours

Max. Marks: 50

General Instructions:

1. Please read the instructions carefully.
2. This Question Paper consists of **21 questions** in two sections: Section A & Section B.
3. Section A has Objective type questions whereas Section B contains Subjective type questions.
4. **Out of the given (5 + 16 =) 21 questions, a candidate has to answer (5 + 10 =) 15 questions in the allotted (maximum) time of 2 hours.**
5. All questions of a particular section must be attempted in the correct order.
6. **SECTION A - OBJECTIVE TYPE QUESTIONS (24 MARKS):**
 - i. This section has 05 questions.
 - ii. Marks allotted are mentioned against each question/part.
 - iii. There is no negative marking.
 - iv. Do as per the instructions given.

7. SECTION B – SUBJECTIVE TYPE QUESTIONS (26 MARKS):

- i. This section has 16 questions.
- ii. A candidate has to do 10 questions.
- iii. Do as per the instructions given.
- iv. Marks allotted are mentioned against each question/part.

SECTION A: OBJECTIVE TYPE QUESTIONS

Q. 1	Answer any 4 out of the given 6 questions on Employability Skills (1 x 4 = 4 marks)	
i.	Aisha moved from Egypt to Germany for work but finds it difficult to adjust because she is not familiar with German customs and workplace etiquette, which affects her interactions with colleagues. This situation illustrates a: a) Interpersonal barrier b) Cultural barrier c) Physical barrier d) Linguistic barrier	1
ii.	Rohan has been working long hours every day without a break. Over time, he starts experiencing headaches, anxiety, and fatigue. This is likely caused by prolonged: a) Stress b) Discipline c) Timeliness d) Goal – Setting	1
iii.	When Ayaan switches on his computer, a particular software starts running automatically and manages all the hardware and other software. Which software is this? a) Web Browsers b) Designing Software c) Office Software d) Operating System	1
iv.	An entrepreneur must be ready to take a _____ and remain open to new ideas to grow their business. a) Satisfying human need b) Product and Service c) Calculated Risk d) Regular Production	1
v.	The Sustainable Development Goals (SDGs) aim to tackle key challenges faced by businesses, governments, and society, such as: a) Gender Equality b) Energy & Climate Change c) Biodiversity d) All of the above	1
vi.	The SMART method helps in setting effective goals for career and personal growth. In this method, what does the 'A' stand for? a) Abrupt b) Accountable c) Achievable d) Admirable	1

Q. 2	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
i.	Ria has a long document where she needs to apply the same paragraph style at multiple scattered locations. She wants to avoid the repetitive task of selecting each word/paragraph and applying the style separately. Which feature should she use, and how can she stop using it once she is done? a) Use <i>Fill Format</i> option; stop it by clicking <i>Fill Format</i> button again or pressing Esc b) Use <i>AutoFormat</i> ; stop it by closing the document c) Use <i>Format Painter</i> ; stop it by pressing Ctrl+Shift+F d) Use <i>Style Inspector</i> ; stop it by clicking on Close	1
ii.	Arjun wants to slightly change the formatting of a predefined paragraph style in his Writer document. He does not want to create a new style, but rather update the existing one so that the changes apply wherever that style is used. Which option should he choose after formatting the text? a) Create New Style b) Update Selected Style c) AutoFormat d) Fill Format	1

iii.	Meena has prepared a project report with multiple headings and sub-headings. She wants to create a section at the beginning of the report that lists all topics in order and allows her to jump directly to any section by clicking on it. Which feature of Writer should she use? a) Index of Keywords b) Hyperlink Tool c) Table of Contents d) Bookmark	1
iv.	Assertion (A): In LibreOffice Calc, a Macro can be created as a function to perform repetitive calculations for which no predefined function exists. Reason (R): A function macro is written between Function and End Function statements, can accept arguments, perform operations, and return results. a) Both A and R are true, and R is the correct explanation of A b) Both A and R are true, but R is NOT the correct explanation of A c) A is true, but R is false d) A is false, but R is true	1
v.	A teacher wants to prepare a summary report in LibreOffice Calc by calculating the average marks of students from two different spreadsheet files: X-A.ods and X-B.ods . Which feature of Calc will help her achieve this? a) Data Consolidate b) External References to other documents c) What-if Scenarios d) Goal Seek	1
vi.	Which menu path in LibreOffice Calc is used to accept or reject changes made in a shared spreadsheet? a) Tools > Review Changes > Manage b) File > Options > Track Changes c) Edit > Track Changes > Manage d) View > Track Changes > Review	1

Q. 3 Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)		
i.	Rahul wants to generate a Table of Contents (ToC) in his LibreOffice Writer document. However, when he inserts the ToC, it appears empty. Which of the following is the MOST likely reason for this issue? a) He did not protect the ToC against manual changes b) He forgot to apply heading styles (Heading 1, Heading 2, etc.) to his document headings c) He placed the cursor at the wrong location before inserting ToC d) He did not rename the default title "Table of Contents" to "Contents"	1
ii.	During an audit, it is observed that employees are sitting for long hours with poor posture, and the computer screens cause glare. Which hazards are most relevant here? a) Physical and Fire Hazards b) Ergonomic and Health Hazards c) Chemical and Safety Hazards d) Biological and Health Hazards	1
iii.	In a database table, if more than one field is used together to uniquely identify a record, it is called: a) Primary Key b) Foreign Key c) Composite Key d) Candidate Key	1
iv.	If a database field is defined as VARCHAR(50) and the user enters 20 characters, how much storage is allocated? a) 50 bytes b) 20 bytes c) 64,000 bytes d) 255 bytes	1
v.	A database designer wants to create a system where multiple tables are connected , allowing retrieval of related data from these tables efficiently. Which data model should the designer use? a) Relational Data Model b) Network Data Model	1

	c) Hierarchical Data Model d) All of these	
vi.	The Query Design Window in LibreOffice Base is divided into how many parts? a) One b) Two c) Three d) Four	1

Q. 4	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
i.	Which keyboard shortcut is used to open the Templates dialog box in LibreOffice Writer to manage or set default templates? a) Ctrl + Shift + T b) Ctrl + Alt + N c) Ctrl + Shift + N d) Ctrl + N	1
ii.	Rohit is analyzing sales data spread across four different sheets in LibreOffice Calc. He wants to combine the data into a single sheet to identify overall trends and relationships. He also wants any change in the source sheets to automatically update in the consolidated sheet. Which feature and option should he use? a) Use Pivot Table with the "AutoFilter" option b) Use Consolidate with the "Link to source data" option enabled c) Use Data Validation with "Cell Range" enabled d) Use Scenario Manager with "Copy Results To" option	1
iii.	Which of the following statements about forms in a database is incorrect ? a) A form provides a user-friendly interface for entering and modifying data. b) Each field control in a form consists of a label and a field value text box. c) Forms can include graphics, titles, and additional text for better presentation. d) Forms are used to permanently store data like tables.	1
iv.	During office work, employees complain of stress due to long hours and conflicts with colleagues. Which approach is most effective in reducing this hazard? a) Conflict resolution training and promoting hobbies b) Only installing ergonomic chairs c) Providing fire extinguishers d) Routine electrical inspections	1
v.	Ritika has created a spreadsheet to calculate the EMI for a car loan. The EMI depends on the loan amount, interest rate, and loan duration (years). She fixes the loan amount and interest rate, but wants the EMI to be exactly ₹12,000 per month . Which feature of Calc should she use, and why? a) Goal Seek – because it adjusts the input (loan duration) to reach the exact target output (EMI = ₹12,000). b) Scenario Manager – because it allows creating multiple possible outcomes with different sets of inputs. c) Consolidate – because it combines data from different sheets into one summary. d) Data Validation – because it restricts the type of values that can be entered into a cell.	1
vi.	Materials in a workplace are classified by risk to prevent fires. Which of the following correctly matches the material class with its description? a) Class A – liquids, grease, and gas; Class B – wood, cloth, paper b) Class C – electrical materials; Class D – volatile metals like magnesium and sodium c) Class B – electrical equipment; Class C – paper and cloth d) Class D – liquids and gas; Class A – electrical materials	1

Q. 5	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
i.	Sneha is preparing 10 different project reports for her company. Each report requires the same header with the company logo, a footer with the legal notice, and predefined formatting for headings and text. Instead of manually inserting and formatting these elements in each report, which feature of LibreOffice Writer should she use? a) Styles	1

	b) Macros c) Templates d) Table of Contents	
ii.	Which of the following components open along with the Report Wizard in LibreOffice Base? a) Report Builder b) Add Fields dialog box c) Both a and b d) Neither a nor b	1
iii.	Rohini works as a floor manager. She has been assigned the task of conducting regular _____ to ensure the safety of life in case of any disaster or emergency by evacuating the place of danger. a) Cultural assembly b) Open house events c) Evacuation drill d) Trips and excursions	1
iv.	Ramesh notices that a colleague has slipped and sustained a serious injury at work. Which sequence of actions demonstrates the correct approach to handling the accident according to safety protocols? a) Attend to injured person → inform supervisor → assist supervisor b) Report to supervisor → attend to injured person → assist supervisor c) Assist supervisor → attend to injured person → inform supervisor d) Ignore minor injury → continue work → report at the end of the day	1
v.	Sonia works in a busy office where spills, broken glass, and clutter are common. To maintain a safe and productive workplace, which combination of actions should she prioritize? a) Clean her own workstation, report faulty lights, leave spills for cleaning staff b) Clean her workstation, clear spaces around machines, immediately clean spills, report faulty lighting c) Focus only on her own desk, ignore common areas, and wait for maintenance to fix lighting d) Only clean common areas and ignore her personal workspace	1
vi.	A company's finance team is preparing the quarterly budget report . Two managers, Mr. Raj and Ms. Meera, work on the same spreadsheet file separately (<i>Budget_Raj.ods</i> and <i>Budget_Meera.ods</i>). Now, before submitting the final report to the CEO, the team needs to: 1. Check the differences in both versions. 2. Merge the approved changes into one final file. As the data entry operator, which steps will you follow in LibreOffice Calc? a) Directly open <i>Budget_Raj.ods</i> and overwrite it with <i>Budget_Meera.ods</i> . b) Open <i>Budget_Raj.ods</i> , use Compare Document to review differences, then use Merge Document to finalize. c) Open <i>Budget_Meera.ods</i> and delete conflicting data manually. d) Use only Merge Document , since it automatically compares files too.	1

SECTION B: SUBJECTIVE TYPE QUESTIONS

Answer any 3 out of the given 5 questions on Employability Skills (2 x 3 = 6 marks)

Answer each question in 20 – 30 words.

Q. 6	Explain any two C's of effective communication.	2
Q. 7	Maya often gets frustrated at work and reacts impulsively in stressful situations. She wants to improve her ability to handle emotions and respond calmly. Which steps can help her manage emotional intelligence effectively?	2
Q. 8	Compare Self-Employment and Wage Employment.	2
Q. 9	What are the major problems related to sustainable development concerning food and water?	2
Q. 10	Sara is worried about her personal and work data being stolen or infected by viruses. What steps can she take to protect her data effectively?	2

Answer any 4 out of the given 6 questions in 20 – 30 words each (2 x 4 = 8 marks)

Q. 11	Aarav is learning to format documents in LibreOffice Writer. His teacher asked him to explain any two style categories along with one feature of each. What should Aarav write?	2
Q. 12	(a) What must you do before enabling the Record Changes feature? (b) How can you confirm that sharing has been disabled in the spreadsheet?	2
Q. 13	Differentiate between One-to-Many and Many-to-Many relationships in a database.	2
Q. 14	What are the common causes of electrical hazards at the workplace? Suggest one safety measure to prevent them.	2
Q. 15	What is a Macro? List any two real life situations where they can be used.	2
Q. 16	While inspecting a machine, Rohan notices a colleague stuck to a live wire. What steps should Rohan follow to safely rescue the victim?	2

Answer any 3 out of the given 5 questions in 50– 80 words each (4 x 3 = 12 marks)

Q. 17	<p>Case Study</p> <p>A publishing company is designing an e-magazine in LibreOffice Writer. The editor wants to insert images of articles and advertisements in such a way that the layout looks attractive and professional. While working, the team faces some challenges:</p> <ul style="list-style-type: none"> • In one article, two images overlap, and only part of the required picture is visible. • For the cover page, the editor wants the main image to stay fixed in the center, no matter how much text is added or removed. • In another section, the designer wants text to flow smoothly around the images so that the page looks balanced. • For an advertisement, the client requests that the product image should appear above all other elements. <p>(a) Which feature should the team use to solve the problem of overlapping images?</p> <p>(b) Which setting will help the editor keep the main image fixed in the center of the cover page?</p> <p>(c) Which positioning option will make the text flow smoothly around the images in the article?</p> <p>(d) Which arrangement tool should be used to ensure the advertisement image appears above all other elements?</p>	4
--------------	---	----------

Q. 18	<p>Consider the table given below and answer the questions that follow:</p> <table border="1"> <thead> <tr> <th>Student Name</th><th>Roll Number</th><th>Class</th><th>Marks</th></tr> </thead> <tbody> <tr> <td>Aryan Sharma</td><td>101</td><td>10A</td><td>450</td></tr> <tr> <td>Priya Singh</td><td>102</td><td>10B</td><td>470</td></tr> <tr> <td>Rohan Mehta</td><td>103</td><td>10A</td><td>480</td></tr> <tr> <td>Ananya Kapoor</td><td>104</td><td>10C</td><td>460</td></tr> </tbody> </table> <p>(a) Name all the fields in the given table. (b) Which field should be made the primary key? (c) Suggest a possible alternate key, if any. (d) Explain how a primary key differs from a foreign key with an example.</p>	Student Name	Roll Number	Class	Marks	Aryan Sharma	101	10A	450	Priya Singh	102	10B	470	Rohan Mehta	103	10A	480	Ananya Kapoor	104	10C	460	4
Student Name	Roll Number	Class	Marks																			
Aryan Sharma	101	10A	450																			
Priya Singh	102	10B	470																			
Rohan Mehta	103	10A	480																			
Ananya Kapoor	104	10C	460																			
Q. 19	<p>Musculoskeletal problems affect different parts of the body like neck, back, chest, arms, shoulders, and feet. These problems happen due to wrong posture or uncomfortable chairs while working on a computer. List four ways to avoid this problem.</p>	4																				
Q. 20	<p>Ruhi is managing a Sports Day database in LibreOffice Base. She has a master table called EventCategory and a transaction table called Events.</p> <p>(a) What is referential integrity? Give an example from Ruhi's database. (b) Ruhi wants to stop deletion of any category that is being used in the Events table. Which option should she use? (c) If a CategoryID is changed in EventCategory, how does the Update Cascade option affect the Events table? Give an example. (d) If the Set NULL option is used and a master record is deleted, what happens in the Events table? How is it different from Set Default?</p>	4																				
Q. 21	<p>Arjun is preparing a project report in LibreOffice Calc that contains multiple spreadsheets. He wants smooth navigation between different sheets and also plans to include data from a government website. Initially, he uses an absolute hyperlink but later realizes it breaks when he shares the report with his teacher because the file path is different on another computer. His friend suggests trying a relative hyperlink instead. While inserting a hyperlink, Arjun notices the option Target in Document, which allows him to connect directly to a particular sheet. He also discovers the Link to External Data option to fetch live tables from a web page into his spreadsheet.</p> <p>(a) Why did the absolute hyperlink fail when Arjun shared the file, and how does a relative hyperlink solve this problem? (b) How does the Target in Document option increase the usefulness of hyperlinks in large spreadsheets? (c) Arjun wants to ensure that anyone viewing his report can update data directly from a government website. Which feature should he use, and why is it beneficial? (d) If Arjun wants to edit or remove a hyperlink later, what steps should he take?</p>	4																				

CBSE | DEPARTMENT OF SKILL EDUCATION

ARTIFICIAL INTELLIGENCE (SUBJECT CODE - 417)

Blue-print for Sample Question Paper for Class X (Session 2025-2026)

Max. Time: 2 Hours

Max. Marks: 50

PART A - EMPLOYABILITY SKILLS (10 MARKS):

UNIT NO.	NAME OF THE UNIT	OBJECTIVE TYPE QUESTIONS	SHORT ANSWER TYPE QUESTIONS	TOTAL QUESTIONS
		1 MARK EACH	2 MARKS EACH	
1	Communication Skills – II	1	1	2
2	Self-Management Skills – II	2	1	3
3	ICT Skills – II	1	1	2
4	Entrepreneurial Skills – II	1	1	2
5	Green Skills – II	1	1	2
TOTAL QUESTIONS		6	5	11
NO. OF QUESTIONS TO BE ANSWERED		Any 4	Any 3	Any 7
TOTAL MARKS		$1 \times 4 = 4$	$2 \times 3 = 6$	10 MARKS

PART B - SUBJECT SPECIFIC SKILLS (40 MARKS):

UNIT NO.	NAME OF THE UNIT	OBJECTIVE TYPE QUESTIONS	SHORT ANSWER TYPE QUESTIONS	DESCRIPTIVE/ LONG ANS. TYPE QUESTIONS	TOTAL QUESTIONS
		1 MARK EACH	2 MARKS EACH	4 MARKS EACH	
1	Unit 1: Revisiting AI Project Cycle & Ethical Frameworks for AI	5	1	1	7
2	Unit 2: Advanced Concepts of Modeling in AI	4	2	2	8
3	Unit 3: Evaluating Models	6	1	1	8
4	Unit 5: Computer Vision	4	1	-	5
5	Unit 6: Natural Language Processing	5	1	1	7
TOTAL QUESTIONS		24	6	5	35
NO. OF QUESTIONS TO BE ANSWERED		Any 20	Any 4	Any 3	Any 27
TOTAL MARKS		$1 \times 20 = 20$	$2 \times 4 = 8$	$4 \times 3 = 12$	40 MARKS

CBSE | DEPARTMENT OF SKILL EDUCATION

ARTIFICIAL INTELLIGENCE (SUBJECT CODE - 417)

Sample Question Paper for Class X (Session 2025-2026)

Max. Time: 2 Hours

Max. Marks: 50

General Instructions:

1. Please read the instructions carefully.
2. This Question Paper consists of **21 questions** in two sections: Section A & Section B.
3. Section A has Objective type questions whereas Section B contains Subjective type questions.
4. **Out of the given (5 + 16 =) 21 questions, a candidate has to answer (5 + 10 =) 15 questions in the allotted (maximum) time of 2 hours.**
5. All questions of a particular section must be attempted in the correct order.
6. **SECTION A - OBJECTIVE TYPE QUESTIONS (24 MARKS):**
 - i. This section has 05 questions.
 - ii. Marks allotted are mentioned against each question/part.
 - iii. There is no negative marking.
 - iv. Do as per the instructions given.
7. **SECTION B – SUBJECTIVE TYPE QUESTIONS (26 MARKS):**
 - i. This section has 16 questions.
 - ii. A candidate has to do 10 questions.
 - iii. Do as per the instructions given.
 - iv. Marks allotted are mentioned against each question/part.

SECTION A: OBJECTIVE TYPE QUESTIONS

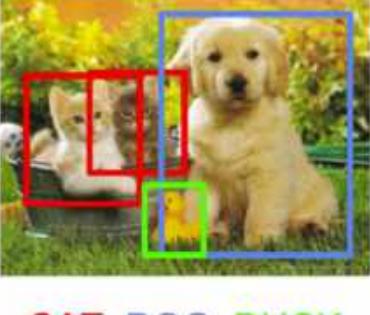
Q. 1	Answer any 4 out of the given 6 questions on Employability Skills (1 x 4 = 4 marks)	
i.	Which type of non-verbal communication is shown by actions like raising a hand to greet or pointing a finger at someone? a) Facial Expression b) Posture c) Gesture d) Eye Contact	1
ii.	You take ownership of a task, complete it sincerely, and report honestly even if it is delayed. Which of the following best describes this behaviour as one of the skills you must master to succeed in life? a) Self-awareness b) Responsibility c) Time management d) Adaptability	1
iii.	Which of the following is not one of the suggested steps to manage emotional intelligence? a) Making decisions purely based on emotions b) Observing your own behaviour to understand your emotions c) Practising meditation and yoga to stay calm d) Thinking rationally before making decisions	1
iv.	What is the action called when you place the mouse pointer over a file in File Explorer and it displays the file's details without clicking? a) Click b) Drag c) Scroll d) Hover	1
v.	Sanjana opened a small grocery store in her neighbourhood. Despite competition from nearby stores, her business attracted regular customers. Within a year, she expanded her store and later opened four more branches across the city. She now plans to expand to two more cities. Which stage of the career or entrepreneurial process is she currently in? a) Survive b) Enter c) Grow d) Retire	1
vi.	Donating things we do not use, such as clothes, books, furniture, or food, contributes to which Sustainable Development Goal? a) SDG 12 – Responsible Consumption and Production b) SDG 3 – Good Health and Well-being c) SDG 1 – No Poverty d) SDG 4 – Quality Education	1

Q. 2	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
i.	With respect to the type of data fed into the AI model, AI model can be broadly classified into ____ domains.	1
ii.	<p>Assertion (A) : Virtue-based framework focuses on the character and intentions of individuals involved in decision-making.</p> <p>Reason (R): Virtue-based framework evaluates whether actions align with principles such as honesty, compassion, and integrity.</p> <p>a) Both A and R are correct, and R is the correct explanation of A b) Both A and R are correct, but R is not the correct explanation of A c) A is correct, but R is incorrect d) A is incorrect, but R is correct</p>	1
iii.	<p>A teacher uses a rule-based program to grade students' essays. The program was trained to look for specific keywords and phrases to assign grades. However, when students start using new words and expressions not included in the training, the program gives incorrect grades.</p> <p>What is the most likely reason for this issue?</p> <p>a) The rule-based program was not trained on enough essays. b) The rule-based approach is static and cannot adapt to new words or expressions. c) The students wrote essays that were too long. d) The program was not tested properly.</p>	1
iv.	_____ is an integral part of the model development process that helps to find the best model that represents our data and how well the chosen model will work in the future.	1
v.	_____ is mainly focused on enhancing raw input images or preparing them for other tasks, such as rescaling, correcting brightness, or changing tones. It is a subset of _____.	1
vi.	<i>State True or False:</i> In natural language, it is important to understand that a word can have multiple meanings and the meanings fit into the statement according to the context of it.	1

Q. 3	Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)	
i.	<p>A self-driving car fails to detect pedestrians crossing at night, resulting in a near accident. Which domain of AI technology should be enhanced to improve safety?</p> <p>a) Natural Language Processing b) Statistical Data c) Recommendation Systems d) Computer Vision</p>	1

ii.	 <table border="1"> <thead> <tr> <th>Fruit</th><th>Color</th><th>Price</th></tr> </thead> <tbody> <tr> <td>Cherry</td><td>Red</td><td>₹1.8</td></tr> <tr> <td>Orange</td><td>Orange</td><td>₹2</td></tr> <tr> <td>Banana</td><td>Yellow</td><td>₹1</td></tr> <tr> <td>Grape</td><td>Purple</td><td>₹3</td></tr> </tbody> </table> <p>In the given fruit dataset, what do we call Fruit, Color and Price as?</p> <ol style="list-style-type: none"> Instances Values Models Features 	Fruit	Color	Price	Cherry	Red	₹1.8	Orange	Orange	₹2	Banana	Yellow	₹1	Grape	Purple	₹3	1
Fruit	Color	Price															
Cherry	Red	₹1.8															
Orange	Orange	₹2															
Banana	Yellow	₹1															
Grape	Purple	₹3															
iii.	<p>In a spam email detection system, out of 1000 emails received, 300 are spam. The system correctly identifies 240 spam emails as spam, but it also marks 60 legitimate emails as spam.</p> <p>What is the precision of the system?</p> <ol style="list-style-type: none"> 0.80 0.70 0.75 0.90 	1															
iv.	<p>Assertion (A): In machine learning, a model with lower error is considered to perform better on a given dataset.</p> <p>Reason (R): Error helps us evaluate how accurately a model can predict both training and unseen data, which is why it is used to select the best-performing model.</p> <ol style="list-style-type: none"> Both A and R are correct, and R is the correct explanation of A Both A and R are correct, but R is not the correct explanation of A A is correct, but R is incorrect A is incorrect, but R is correct 	1															
v.	<p>Identify the application of Computer Vision from the given picture:</p> <ol style="list-style-type: none"> Facial Recognition CV in Retail Medical Imaging Face Filters 	1															
vi.	<p><i>Count and write the number of tokens in the sentence:</i></p> <p>Words with adequate occurrence in a corpus are considered frequent and often reflect the main subject of the document, unlike stop words whose frequency is high but value is low.</p>	1															

vi.	<p>Identify the application of NLP shown in the given picture:</p> <p>a) Autogenerated captions b) Sentiment Analysis c) Text Classification d) Keyword Extraction</p> 	1
-----	---	---

Q. 5	<p>Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)</p>	
i.	<p>You are deciding to donate to a charity. One recipient is a local school in your neighbourhood, while another is a school in a distant country. Which factor might unconsciously influence your decision?</p> <p>a) Location of the recipient b) Design of the charity logo c) Weather on the day of donation d) The type of pen used to sign the donation form</p>	1
ii.	<p>A house was predicted to cost ₹4,53,000, but the actual selling price was ₹4,88,000. What is the error rate of this prediction (rounded to three decimal places)?</p> <p>a) 0.058 b) 0.071 c) 0.092 d) 0.117</p>	1
iii.	 <p>The term that refers to the process of identifying and locating real-world objects like faces, bicycles, or buildings in images or videos, and is used in applications such as image retrieval and automated vehicle parking systems is _____.</p> <p>a) Image Classification b) Image Segmentation c) Object Detection d) Feature Extraction</p>	1
iv.	<p>_____ is the outcome of the model wrongly predicting the negative class as positive class.</p>	
v.	<p>Which type of bot is easy to create, works based on pre-written instructions, is mostly free, easy to integrate with messaging platforms, requires little or no language processing skills, and has limited functionality?</p> <p>a) Script Bot b) Smart Bot c) Cleaning Bot d) Talbot</p>	1
vi.	<p>What are the stemmed and lemmatized forms of the word 'flies'?</p> <p>a) Stemmed: fly, Lemmatized: flies b) Stemmed: fly, Lemmatized: fly c) Stemmed: flies, Lemmatized: flies d) Stemmed: fli, Lemmatized: fly</p>	

SECTION B: SUBJECTIVE TYPE QUESTIONS

Answer any 3 out of the given 5 questions on Employability Skills (2 x 3 = 6 marks)

Answer each question in 20 – 30 words.

Q. 6	What is a pronoun? Give an example.	2
Q. 7	List four steps to build self-motivation.	2
Q. 8	“Security break is leakage of information stored in a computer”. Explain two ways in which personal information can be lost or leaked.	2
Q. 9	Reema runs a small handmade soap business. Every morning, she decides what products to make, how many soaps to produce, and where to sell them. She also arranges raw materials and assigns tasks to her staff. From the paragraph, identify and write the two functions of an entrepreneur that are being described.	2
Q. 10	What is organic farming? Mention any two benefits of practising organic farming.	2

Answer any 4 out of the given 6 questions in 20 – 30 words each (2 x 4 = 8 marks)

Q. 11	What do you do in the second and third stages of an AI Project cycle?	2
Q. 12	Identify the type of deep learning model. a) This deep learning model processes input images by learning to assign importance (weights and biases) to various features in the image, allowing it to distinguish one object from another. b) This deep learning model is inspired by the structure of the human brain. It can automatically extract features from large datasets without explicit programming. Each node in the network acts like a small machine learning algorithm.	2
Q. 13	How is reinforcement learning different from supervised and unsupervised learning?	2
Q. 14	What is model evaluation in machine learning, and how does it help improve an AI model?	2
Q. 15	What is a "byte image" format in the context of digital images?	2
Q. 16	Identify the stage of NLP and explain. <input checked="" type="checkbox"/> We are to the zoo going tomorrow. <input checked="" type="checkbox"/> We are going to the zoo tomorrow.	2

Answer any 3 out of the given 5 questions in 50– 80 words each (4 x 3 = 12 marks)

Q. 17	<p>Read the case study below and answer the following questions:</p> <p><i>A school develops an AI system to shortlist students for a competitive scholarship. The algorithm is trained to prioritize students who complete online application forms quickly — assuming that faster completion reflects confidence, competence, and tech-savviness. However, students who are not fluent in English, or who do not have access to a computer at home, take longer to fill out the form. As a result, many deserving students are unfairly rejected by the algorithm.</i></p> <p>a) Identify two reasons why the algorithm gave biased results. b) Mention two bioethics principles that can help solve such a problem and explain how they apply.</p>	4
Q. 18	<p>a) What is the name of the learning model that works with <i>unlabeled data</i> to identify hidden patterns or structures in the data? b) Name the two main categories of this learning model. c) Explain each category briefly and provide one example for each.</p>	4
Q. 19	<p>Identify the name of the application of Machine Learning (ML) or Deep Learning (DL) being used in the following scenarios.</p> <p>a) A fitness tracker uses AI to monitor your heart rate and learn what is normal for you. One evening, while you're relaxing and watching a horror movie, the tracker suddenly flags a spike in your heart rate as an anomaly — thinking something might be wrong. b) A wildlife camera is equipped with AI to monitor animals in a forest. It not only records movement of animals, but also identifies and classifies them into categories like "bird", "mammal", "insect", etc., c) A smart refrigerator is equipped with an internal camera and an AI system. One of its door features a display screen that shows a real-time image of the inside, capturing all the food items on various shelves. For each item, the system not only shows its actual image but also places an AI-generated label on top of it, such as:  "Milk Carton",  "Apple",  "Ice Cream". d) Imagine an app that helps you unlock your bike. Instead of typing a password, you simply scribble a numerical code like "5281" on your phone screen using your finger — even if your handwriting is a bit messy after a tough workout.</p>	4
Q. 20	<p>Read the following paragraph and answer the questions that follow:</p> <p>A school recently tested an AI model designed to predict whether students would pass or fail their final exams. Out of 100 students, the model correctly predicted that 40 students would pass and they actually did. It also correctly identified 30 students who were going to fail. However, the model predicted that 20 students would pass, but they ended up failing. Additionally, it predicted that 10 students would fail, but they actually passed.</p> <p>a) Draw the confusion matrix based on the above information. (2) b) Calculate the accuracy of this classification model. Show your working. (1) c) Write the total number of wrong predictions made by the model. (1)</p>	4

Q. 21	<p>Read the following three documents and answer the questions that follow:</p> <ul style="list-style-type: none"> ● Document 1: "Students love studying AI" ● Document 2: "AI is transforming education" ● Document 3: "Teachers and students explore AI tools" <p>After performing basic text pre-processing (removing punctuation, converting to lowercase, and tokenizing), the documents become:</p> <ul style="list-style-type: none"> ● Document 1: [students, love, studying, ai] ● Document 2: [ai, is, transforming, education] ● Document 3: [teachers, and, students, explore, ai, tools] <p>Questions:</p> <ol style="list-style-type: none"> a) Create the dictionary (vocabulary) of unique words from all three documents. b) Construct the document vector for Document 3 using the dictionary. c) Explain how Bag of Words help in feature extraction. d) Why is the order of words not considered important in Bag of Words? 	4
-------	--	---

COMPUTER APPLICATIONS - CODE 165
SAMPLE QUESTION PAPER* (THEORY)
CLASS X (2025-26)

Time allowed: 2 Hours

Maximum Marks:50

General Instructions:

- 1) This Question Paper has 5 Sections A-E.
- 2) All Questions are compulsory. However, internal choices have been provided in some of the questions.
- 3) Section A has 12 questions carrying 01 mark each.
- 4) Section B has 7 Short Answer (SA-I) type questions carrying 02 marks each.
- 5) Section C has 4 Short Answer (SA-II) type questions carrying 03 marks each.
- 6) Section D has 1 Long Answer (LA) type question carrying 04 marks.
- 7) Section E has 2 Source based /Case-based /Passage based Questions carrying 04 marks each.

Q No.	Section-A (12 x 1 = 12 Marks) This section contains 12 Multiple Choice questions carrying 01 mark each.	Mark s
1	Which of the following is NOT a web service? (A) Sending an email via a webmail client (B) Making online transactions through a banking portal (C) Sharing files through Bluetooth (D) Conducting online classes for students	1
2	What does TCP/IP stands for? (A) Transmission Control Program/Internet Protocol (B) Transfer Control Program/Internet Protocol (C) Transfer Control Protocol/Internet Provider (D) Transmission Control Protocol/Internet Protocol	1
3	Information retrieval refers to the process of: (A) Locating and accessing information through search engines (B) Sending and receiving emails using different email protocols (C) Transferring files from one device to another using protocols (D) Fetching web pages from a server	1
4	Which of the following is an attribute of the <body> tag? (A) vlink (B) face (C) color (D) font-size	1
5	In HTML, the bgcolor attribute is used to _____ (A) Set the background color of the webpage (B) Set the text color of the webpage	1

	(C) Set the background image of the webpage (D) Set the background text of the webpage	
6	Which of the following is the use of VoIP technology? (A) Transmitting multimedia content over the internet (B) Sending and receiving emails (C) Making voice calls over the internet (C) Hosting websites on servers	1
7	Which of the following best describes the main responsibility of a web server? (A) Storing files on a local device (B) Transmitting data across the internet (C) Hosting websites and delivering content to web browsers (D) Encrypting files to ensure secure transfer	1
8	The digital divide refers to: (A) The difference in privacy laws across different countries (B) The gap between those who have access to digital devices and those who do not (C) The issue of intellectual property rights in the digital world (D) The security measures taken to protect digital transactions in e-commerce	1
9	Which of the following is a characteristic of open-source software? (A) It is free of cost and can be modified by anyone. (B) It is free of cost, but cannot be modified. (C) It requires a fee for usage and modification. (D) It is available for purchase and cannot be shared.	1
10	Rahul wants to access another computer system remotely. Which protocol should he use? (A) SMTP (B) POP3 (C) HTTP (D) TELNET	1
	Q-11 and Q-12 are Assertion (A) and Reason (R) Type questions. Choose the correct option as: (A) Both A and R are True, and R correctly explains A. (B) Both A and R are True, but R does not correctly explain A. (C) A is True, but R is False. (D) A is False, but R is True.	
11	Assertion (A): FTP is used for transferring files over a network. Reason (R): FTP encrypts all file transfers for secure communication.	1
12	Assertion (A): When we enter the URL of a website in the address bar, the web browser retrieves the web page from a web server. Reason (R): The web browser uses the HTTP protocol to interact with web servers and retrieve web pages.	1

Q No.	Section-B (7X2 = 14 Marks) This section contains 07 Short Answer type questions carrying 02 marks each.		Marks
13	What is the importance of comments. Write the syntax for writing comments in an HTML page.		2
14	A	Sanaya, a Class X student, enjoys learning through online platforms. What is this approach of studying called? Mention any two advantages of using this approach.	2
	B	What do you understand by the term web-address? How is it different from an email address?	
15	Aarav is designing a webpage and wants to set the background color and text color. Write code to achieve this using HTML attributes.		2
16	A	Explain the purpose of the rowspan and colspan attributes in an HTML table. Provide an example.	2
	B	Shruti wants to create a numbered list on her webpage. Explain the purpose of the type and start attributes in the tag with an example.	
17	What is the purpose of Hyper-link in an HTML Page? Explain the use of the href attribute with an example.		2
18	A	An incomplete HTML code of a webpage is given below. Fill in the empty spaces in the <style> tag to meet the specifications given. <pre> <html> <head> <title>CSS Demo</title> <style> body { _____: Yellow; } h1 { _____: Red; _____: Arial; } p { _____: 16px; } </style> </pre>	2

```

</head>
<body>
  <h1>Welcome to My Webpage</h1>
  <p>This page demonstrate CSS styling.</p>
</body>
</html>

```

Specifications

- Set the background color of the webpage to Yellow.
- The heading (<h1>) should have a Red color and use the Arial font.
- The paragraph text (<p>) should have a font size of 16px.

OR

B Nisha, a Class X student, is designing an HTML page to display a description list and an ordered list for her project. She writes the following code:

```

<html>
<body bgcolor="lightgrey">
<h2>Indian Cities</h2>
<dl>
<dt>Mumbai</dt>
<dd>The City of Dreams</dd>
<dt>Kolkata</dt>
  ____<!-- line 1 -->
</dl>
<p>Popular Cities in India:</p>
<ol type="____" start="____"><!-- line 2 -->
<li>Delhi</li>
<li>Mumbai</li>
  ____<!-- line 3 -->
</ol>
</body>
</html>

```

Based on the above code, fill in the blanks in line 1, line 2, and line 3 as per specifications given below.

- In line 1, add the description "The City of Joy" for Kolkata.
- In line 2, specify the type of ordered list as Roman numerals and set the starting value as 5.
- In line 3, add the name of another city Chennai as the third list item.

19	Ravi is trying to make an online payment on an e-commerce website. He sees that the website's URL starts with "http". Should he continue with the payment? Give reasons to support your answer.		2
Q No	Section-C (4X3 = 12 Marks) This section contains 04 Short Answer type questions carrying 03 marks each.		Mark s
20	<p>The following HTML statements contain errors. Rewrite the correct versions of these statements with underlined corrections, following the given specifications:</p> <ol style="list-style-type: none"> Click Here Specification: The color of the hyperlink when it's clicked should be pink. <TITLE font="16px">My Webpage</TITLE> Specification: The webpage title should be 'My Webpage' without any font-related attributes. Welcome to my website! Specification: The text should use the Arial font, size 12. 		3
21	<p>Suchita is examining a URL https://www.data.gov.in/ and has a few questions. Help her by providing answers to the following questions.</p> <ol style="list-style-type: none"> Which part of the URL represents the protocol? What is the meaning of "s" in https? What do the abbreviations URL and WWW stand for? 		3
22	<p>A Write suitable HTML Code to Embed audio and video in a webpage.</p> <p style="text-align: center;">OR</p> <p>B What is a Hypertext link? Write the HTML code to create a hyperlink that refers to an external website in a webpage.</p>		3
23			3
Q No.	Section-D (1X4 = 4 Marks)		Mark s

	This section contains 01 Long Answer (LA) type question carrying 04 marks.														
24	A	<p>Write the HTML code to design the web page as shown below, considering the specifications as given below.</p> <div style="text-align: center; background-color: #90EE90; padding: 10px;"> <h3 style="margin: 0;">Class Timetable</h3> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center; background-color: #90EE90;">Day</th> <th style="text-align: center; background-color: #90EE90;">1st Period</th> <th style="text-align: center; background-color: #90EE90;">2nd Period</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Monday</td> <td style="text-align: center;">Mathematics</td> <td style="text-align: center;">Hindi</td> </tr> <tr> <td style="text-align: center;">Tuesday</td> <td style="text-align: center;">Science</td> <td style="text-align: center;">English</td> </tr> <tr> <td style="text-align: center;">Wednesday</td> <td style="text-align: center;">Physics</td> <td></td> </tr> </tbody> </table> </div> <p>Specification-1 : The HTML code structure should be proper. Heading 'Class Timetable' should be the second level of heading and Background color of the page should be LightGreen.</p> <p>Specification-2 : The value of the table border attribute should be 1. Table header tag should be used wherever required.</p> <p>Specification-3 : The table should exactly contain 3 rows and 3 columns. The data in each cell should be as shown in the above table.</p> <p>Specification-4 : Attribute colspan should be used wherever required.</p>	Day	1st Period	2nd Period	Monday	Mathematics	Hindi	Tuesday	Science	English	Wednesday	Physics		4
Day	1st Period	2nd Period													
Monday	Mathematics	Hindi													
Tuesday	Science	English													
Wednesday	Physics														
	B	<p>Answer the following Questions.</p> <ol style="list-style-type: none"> i. Which HTML tag is used for inserting an image on a webpage. ii. Rahul wants to display an image 'logo.jpg' on a webpage. Write the HTML command he should use to insert the image. iii. On the same webpage, Rahul wants to create a link to another webpage 'aboutus.html' when the image is clicked. Write the HTML command he should use. iv. Explain the use of the "alt" attribute in the HTML Image tag. 													
Q No.	<p style="text-align: center;">Section-E (2 X 4 = 8 Marks)</p> <p>This section contains 2 Source based /Case-based /Passage based Questions carrying 04 marks each.</p>		Mark s												
25	<p>Mr. Ravi recently bought a new smartphone and began exploring online platforms. He decided to book a train ticket to visit his hometown and searched for a booking website which looks very much like the original website. After entering his personal and payment details, he noticed that money had been</p>		4												

	<p>deducted from his account, but he didn't receive any booking confirmation. He then realized that he has been a victim of fraud.</p> <p>Based on the above information, answer the following questions:</p> <ol style="list-style-type: none"> What kind of fraud is Mr. Ravi a victim of? Which sensitive information may have been exposed due to the fraudulent activity? What should Mr. Ravi have checked in the URL before entering his details online? What steps can Mr. Ravi take to protect his financial information in the future? 	
26	<p>Meera is a creative student who loves to design posters for her school events. While preparing a poster for a cultural festival, she downloaded images and content from the internet without seeking permission or giving credit to the original creators.</p> <p>Based on the above information, answer the following questions:</p> <ol style="list-style-type: none"> Can this incident be considered a violation of Intellectual Property Rights (IPR)? Why or why not? Mention the type of Intellectual Property Rights violation committed by Meera. How can Meera avoid this ethical issue while preparing her poster? Suggest any two netiquettes that Meera's classmates should follow when using online resources. 	4