



## Delhi Public School, Howrah

PRE-BOARD EXAMINATION- II (2024-25)  
SUBJECT: ENGLISH LANGUAGE AND LITERATURE (CODE - 184)  
CLASS-X

Time: 3 Hours

Maximum Marks: 80

### General Instructions:

1. The Question Paper contains THREE sections-READING, GRAMMAR & WRITING and LITERATURE.
2. Attempt questions based on specific instructions for each part.

### SECTION A: READING SKILLS (20 marks) Reading Comprehension Through Unseen Passages

Read the following text:		10
(1)	Twentieth-century Russian literary critic Mikhail Bakhtin developed an epistemology that linked carnival, authority, and laughter. Bakhtin wrote about the carnivals and popular festivals of the Middle Ages and Renaissance. He was actually tracing the history of class distinctions. Historically speaking, Bakhtin was interested in the great carnivals of Medieval Europe. He saw them as occasions in which the political, legal and ideological authority of both the church and state were inverted — of course temporarily. He viewed carnival as an act of rebellion, one of satire and playfulness. He suggested that an individual in the Middle Ages lived two lives—an official life subjected to the different authorities of the social order and an unofficial carnival life freed of daily social norms and restrictions.	
(2)	Another way to look at Bakhtin's concept of carnival is that the unrestricted celebration of carnival season allowed a reversal of the typical social, political, and religious standards. To relieve tension that could cause a revolt among the lower classes, the hierarchal structure of medieval European society was temporarily dismantled. This allowed the revellers, the common people in general, more freedom to behave as they pleased. Some works of literature, like Shakespeare's <i>As You Like It</i> , use characters and language to reflect the unusual behaviour typical of carnival season.	
(3)	In medieval Europe, carnival was a time when strict societal rules and institutions gave way to lively celebrations. Bakhtin described it as a period when all social ranks and hierarchies were temporarily suspended. He identified two key features of carnival that influenced genres like satire and comedy: its spontaneous nature and the temporary rejection of laws and norms. During the carnival, people could freely celebrate, ignoring the usual restrictions of society and breaking social norms without consequence.	
(4)	The carnival was not only liberating because - for that short period - the church and state had little or no control over the lives of the revellers, although few critics pointed out this would probably be "licensed" transgression at best. Carnival's true power came from its ability to challenge fixed rules and beliefs, making them open to questioning and change. It created space for new ideas to emerge and be discussed. Bakhtin even argued that the free thinking and irreverence of carnival helped pave the way for the European Renaissance.	
Answer the following questions, based on the passage above.		
i.	Which of the following best explains the primary motive of the passage? A. It describes the historical evolution of medieval carnivals B. It analyses Bakhtin's interpretation of carnival and its societal implications C. It critiques the role of carnivals in the European Renaissance D. It explains the literary impact of carnivalesque genres	1
ii.	Which of the following words from the passage can closely mean 'demolish'? A. suspension B. dissolve	1

	C. engendered D. dismantled																			
iii.	What are the two key elements of carnival identified by Bakhtin that influence genres like satire? A. Political rebellion and religious criticism B. Spontaneity and disregard for the law C. Social harmony and artistic creativity D. Festivity and moral reflection	1																		
iv.	Which of the following <b>does not</b> signify a 'genre'? A. Farce B. Satire C. Autobiography D. Comedy	1																		
v.	Choose the correct option to complete the following line: The phrase "licensed transgression" suggests that the carnivals allowed rebellion but only within _____ parameters. A. Free and Unlimited B. Curbed and Restricted C. Controlled and Sanctioned D. Ridiculous and Chaotic	1																		
vi.	Choose the correct option: <b>Assertion:</b> Carnival in medieval Europe allowed for the temporary suspension of hierarchical differences. <b>Reason:</b> This was a strategy to relieve tensions among lower classes and prevent revolt. A. Both Assertion and Reason are true, and Reason explains Assertion. B. Both Assertion and Reason are true, but Reason does not explain Assertion. C. Assertion is true, but Reason is false. D. Both Assertion and Reason are false.	1																		
vii.	Explain from your understanding of the concept, how a temporary suspension of the hierarchy in the political, social and religious domain, could 'relieve the tension' and prevent revolt.	2																		
vii.	Among many forms of impact a carnival can have, one is paving the way for freedom and a temporary dissolution of societal regulations. Give a real-life example of a carnival that can exemplify this impact.	2																		
<b>2.</b>	<b>Read the following text:</b>	<b>10</b>																		
(1)	Indian language internet user base grew at a CAGR of 41% between 2011 and 2016 to reach 234 million users at the end of 2016. This impressive growth has resulted in Indian language internet users surpassing English internet users.																			
(2)	<p>The growth of Indian language internet users is expected to continue rapidly, with an annual growth rate of 18%, reaching 536 million by 2021. In comparison, the number of English internet users will grow by just 3%. By 2021, Indian language users will make up about 75% of India's internet users. This growth will be driven by more internet-enabled devices, affordable high-speed internet, increasing digital literacy, and better support for Indian languages online. The graph shows the language-wise internet adoption levels for Indian language users:</p>	<table border="1"> <caption>Language-wise internet adoption levels for Indian language users</caption> <thead> <tr> <th>Language</th> <th>Adoption Level (%)</th> </tr> </thead> <tbody> <tr> <td>Tamil</td> <td>42%</td> </tr> <tr> <td>Hindi</td> <td>39%</td> </tr> <tr> <td>Kannada</td> <td>37%</td> </tr> <tr> <td>Bengali</td> <td>34%</td> </tr> <tr> <td>Marathi</td> <td>34%</td> </tr> <tr> <td>Telugu</td> <td>31%</td> </tr> <tr> <td>Gujarati</td> <td>28%</td> </tr> <tr> <td>Malayalam</td> <td>27%</td> </tr> </tbody> </table>	Language	Adoption Level (%)	Tamil	42%	Hindi	39%	Kannada	37%	Bengali	34%	Marathi	34%	Telugu	31%	Gujarati	28%	Malayalam	27%
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(3) The key growth drivers of Indian language internet users include several factors. Reduced mobile data charges have significantly contributed, with mobile data costs decreasing by approximately 96% between September 2016 and December 2016. Rising disposable income also plays a crucial role, as disposable income in India is projected to grow by about 55% by 2020. The rise in smartphone users, with 176 million new users expected in five years, and internet penetration reaching 52% by 2021, have boosted this trend. Government efforts, like investing USD 351 million to improve digital literacy in 60 million rural households by 2019, also support this growth. Additionally, better support for Indian languages on online platforms has made the internet more accessible, encouraging more people to use it.

(4) Digital entertainment caters to 167 million Indian language internet users and is expected to have 392 million users by 2021 growing at a CAGR of 19%. The Hindi internet user base is likely to outgrow the English user base by 2021. Marathi and Bengali users too are driving towards a noticeable growth. Tamil, Kannada and Telugu users will be among the most digitally engaged from 2016 to 2021. Internet-enabled mobile devices are the clear choice of an Indian language user to consume digital content. Local language digital content will witness greater acceptance from Indian language users as they find it more reliable than English content.

(5) Indian language users have an adoption rate of 90% for digital entertainment, second only to chat applications. Users associate convenience and availability of content on demand as the primary reason to access this category online. These users access both video and audio content online. 84% of Indian language internet users view content on a leading video-sharing platform followed by 36% of users accessing India's leading video-on-demand application. The table shows the growth of language adoption, region-wise, in the field of digital entertainment:

User base (in million)	Hindi	Bengali	Telegu	Tamil	Marathi	Gujarati	Kannada	Malayalam
2016	82	13	11	17	19	8	10	6
2021	191	40	27	42	47	20	23	14

(6) Consumption and fulfilment of services in Digital news, Digital classifieds and financial solutions tend to be more hyper-local. This increases the need for support in Indian languages in the immediate future. It is expected that there will be a focus on localised content in Indian languages as well as end-to-end enablement with local support for fulfilment, given the rising importance of localisation of products, services and (offline) assistance. Investment in digital channels supporting Indian languages by consumer products, automotive and financial services companies is expected to rise in the near future.

Answer the following questions, based on the passage above.

- i. How might the increase in disposable income impact the demand for regional language digital services in the next five years?  
 A. Demand will remain unchanged as income does not affect language preference.  
 B. Higher disposable income will boost the demand for English content.  
 C. Rising income will encourage people to explore regional content more frequently.  
 D. Disposable income has no role in shaping digital content preferences. 1
- ii. Pick the option that shows the list of words that collocate with 'overwhelming'. (Eg: 'overwhelming growth')  
 1. response 2. lies 3. support 4. majority 5. pets 6. places  
 A. 1, 5 & 6  
 B. 1, 3 & 4  
 C. 2 & 5  
 D. 3, 5 & 6 1
- iii. Choose the correct set of regions that shows the top three volume growth of regional language adoption of digital entertainment. Refer to the table for the required data.  
 A. Tamil, Kannada, and Telugu  
 B. Hindi, Marathi, and Bengali  
 C. Hindi, Tamil and Marathi  
 D. Bengali, Kannada, and Gujarati 1

iv.	If the total surveyed population is 1,000 people, how many people have adopted Tamil and Hindi language in their use of the Internet? Refer to the graph and choose the correct option: A. 420. B. 590 C. 810. D. 390	1				
v.	Choose the correct option: <b>Assertion (A):</b> Digital entertainment has the highest adoption rate among Indian language internet users. <b>Reason (R):</b> Video and audio content are more engaging for users than text-based content. a) Both (A) and (R) are true, and (R) explains (A). b) Both (A) and (R) are true, but (R) does not explain (A). c) (A) is true, but (R) is false. d) Both (A) and (R) are false.	1				
vi.	Complete the following sentence: Digital news, Digital classifieds and financial solutions tend to be more hyper-local which means _____.	1				
vii.	Why is Tamil the most adopted language among Internet users in the country, as shown in the graph? Give suitable reasons to justify your answer.	2				
viii.	Considering the significant reduction in mobile data charges, what innovative strategies could the service providers adopt to further boost internet penetration among non-English-speaking rural populations?	2				
3.	<b>GRAMMAR</b>	10				
	Complete any ten as directed.					
i.	Read the conversation between Martha and her husband Rex and complete the paragraph that follows: <b>Martha:</b> Why were you spraying wax on your car tyres? <b>Rex:</b> It makes the rubber last longer and prevents it from drying. Martha asked her husband why _____ Rex explained that it made the rubber last longer and prevented it from drying.	1				
ii.	Choose the correct option to fill in the blank and complete the concluding line of an email sent by a supervisor to their team. "The meetings in the coming week have been rescheduled, and _____ (that/these/this) should be conveyed to all members immediately."	1				
iii.	Read the following conversation between Kiara and Ania, and complete Ania's text by choosing the correct option: <b>Kiara:</b> I was not able to believe when I heard that Madhu had won the talent competition. She can hardly sing! <b>Ania:</b> Of course, it _____ for it to have been Madhu! But it seems we were wrong about her capability. A. would be impossible B. was impossible C. would have been impossible D. was not been possible	1				
iv.	Identify the error in the given line from a preaching and supply the correction. Foolish people who do not lay over their money carefully, soon come to grief. <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Error</th> <th>Correction</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	Error	Correction			1
Error	Correction					
v.	Choose the correct option and complete the poem: The road is long, the night is tough, But in my heart, there's strength _____ Through trials and storms, I'll find my way, For hope is all I need each day. A. several B. enough C. a few D. much	1				
vi.	Report Aman's response to the Confectioner's query. <b>Confectioner:</b> How may I help you, child? <b>Aman:</b> Tomorrow is my Granny's birthday. I am looking for an eggless cake for her as she is allergic to eggs.	1				

vii. Fill in the blank by choosing the correct option to complete the cautionary note displayed at a traffic signal. It would help if you \_\_\_\_\_ your safety belt in the back of cars and taxis now as it is a mandatory safety measure aimed at reducing injuries during accidents.  
 A. do away  
 B. do in  
 C. do up  
 D. do out

1

viii. Fill in the blank with the correct option to complete the query of a customer. Isn't there \_\_\_\_\_ way you can deliver my parcel tomorrow?  
 A. no  
 B. some  
 C. a few  
 D. any

1

ix. Select the option that identifies the error in a newspaper sub-heading and supplies the correction for the same.

1

**Courts occasionally make observations on marriage and family that seems out of step with the times.**

Option No.	Error	Correction
A.	observations	observation
B.	seems	seem
C.	out	outside
D.	the	a

x. Complete the opening line of a food blog by choosing the correct option. A staple in British cuisine, Fish and Chips \_\_\_\_\_ one of the most common English dishes, cherished for its simplicity and flavour.  
 A. are  
 B. has  
 C. is  
 D. were

1

xi. Identify the error in the given comment by a protester from the bike club. The bike club could not participate in the race because they objected to the high entrance fee.

1

Error	Correction

xii. Fill in the blank with the suitable option from the given choices. The upcoming vacation is going to heal my mind. I can't wait \_\_\_\_\_ on the sand, sunbathing, and swimming.  
 A. lying  
 B. to lie  
 C. to be lying  
 D. to lay

1

**WRITING**


10

4A. Your school had organised an educational trip to Fatehpur Sikri and Agra. You notice the dilapidated condition of some of the monuments. You realise that the upkeep of the heritage is not done regularly, and you are concerned that this might lead to an important phase of history be razed to ground. Write a letter, in 100-120 words, to the Municipal Chairman of Agra mentioning the condition and requesting him to take urgent steps for the prevention of this valuable heritage. Give all the relevant details. You are Anuj/Anju, 40 Civil Lines, New Delhi.

5

**OR**

4B. You are Anshul/Anshika, a student of Grade X and a resident of 36 D Ring Road, ITO, Jamnagar, who wants to be a choreographer. You come across a flex banner containing an advertisement for an academy as shown on the right. Write an enquiry letter, in 100-120 words, seeking information about the course and its package.



**SET FIRE DANCE ACADEMY**  
 Get a certificate in Contemporary Dance!  
 Attend workshops by eminent artists.

Call us on 9784XXXXXX  
 Find us at: MG. Road,

5

5A. The given visual is a screenshot from the homepage of a brand called 'Rural Treasures' that sells 100% authentic organic products from the rural roots of the country. Write an analytical paragraph in 100-120 words to analyse their promotion strategy.



HOME SHOP ABOUT US RECIPES BLOGS CONTACT US



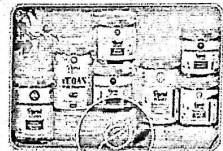
### WHY GO TRADITIONAL?



Delicious Food



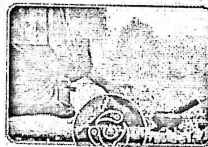
Healthy Lifestyle



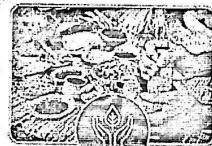
Eco-friendly products



Support Local Farmers



Understanding Time Honoured Practices



Preserving Indian Knowledge

OR

5B. Following is the list of rules set for dispersal by Sushila Education World School.

- Those children who commute by the school bus should reach the bus stop on time in the morning so that the bus is not unnecessarily delayed at any place.
- The school gate will close sharp at 7:30 a.m. and no concession will be made for anyone.
- The dispersal of children who commute by themselves or with parents begins only at 1:40 p.m.
- Parents are requested to desist from picking up their wards before 1:40 p.m. from the school gate.
- Students commuting alone should gather in the Seminar Hall to give special attendance.
- Parents availing of private transport should instruct their drivers (or ensure themselves) to park properly and not block the road.
- As an endnote, we encourage the students to avail of the school bus as it provides an excellent opportunity for children of all ages to cooperate, empathise and be responsible.

Analyse the given set of rules in 100-120 words to justify the decided structure of dispersal.

### SECTION C: LITERATURE TEXTBOOK AND SUPPLEMENTARY READING TEXT (40 marks)

6 Read the given extracts and answer ANY ONE of the given questions.

A. Her first journey — what careful, painstaking, elaborate plans she had had to make for it! She had thriftily saved whatever stray coins came her way, resisting every temptation to buy peppermints, toys, balloons, and the like, and finally, she had saved a total of sixty paise. How difficult it had been, particularly that day at the village fair, but she had resolutely stifled a strong desire to ride the merry-go-round, even though she had the money.

After she had enough money saved, her next problem was how to slip out of the house without her mother's knowledge. But she managed this without too much difficulty. Every day after lunch her mother would nap from about one to four or so. Valli always used these hours for her 'excursions' as she stood looking from the

	doorway of her house or sometimes even ventured out into the village; today, these same hours could be used for her first excursion outside the village. <span style="float: right;">-Madam Rides the Bus</span>	
i.	Valli's decision to not spend money at the village fair suggests about: A. Her lack of interest in the fair. B. Her strict self-discipline to achieve a goal. C. Her fear of being caught. D. Her inability to enjoy small pleasures.	1
ii.	A part of the extract has been paraphrased. Choose the option that includes the most appropriate solution to the blanks.  She had diligently set aside every spare coin she managed to collect, (i) _____ the temptations to indulge in treats like peppermints, toys, or balloons. Over time, her (ii) _____ paid off, and she managed to save a total of sixty paise. The effort was especially (iii) _____ during the village fair, where the allure of a merry-go-round ride was almost irresistible. Yet, despite having the money, she firmly suppressed her longing and stayed true to her goal.  A. (i) satisfying (ii) desire (iii) defying B. (i) maintaining (ii) wishes (iii) tempting C. (i) curbing (ii) determination (iii) challenging D. (i) saving (ii) approach (iii) menacing	1
iii.	Given is a list of different activities. Choose the correct option suggesting the set of activities that does not require "careful, painstaking, elaborate plans". 1. Organizing a Wedding Ceremony 2. Writing and Publishing a Novel 3. Painting a portrait on a Holiday 4. Designing an itinerary for an International Trip 5. A spontaneous hangout with friends  A. Options 1 and 4 B. Options 2, 3 and 5 C. Options 3 and 5 D. Options 1, 2 and 4	1
iv.	What are the possible reasons for Valli to have undertaken her excursion without her mother's knowledge?	2
<b>OR</b>		
B.	Let me put it more clearly, since no one will believe that a thirteen-year-old girl is completely alone in the world. And I'm not. I have loving parents and a sixteen-year-old sister, and there are about thirty people I can call friends. I have a family, loving aunts and a good home. No, on the surface I seem to have everything, except my one true friend. All I think about when I'm with friends is having a good time. I can't bring myself to talk about anything but ordinary everyday things. We don't seem to be able to get any closer, and that's the problem. Maybe it's my fault that we don't confide in each other. In any case, that's just how things are, and unfortunately they're not liable to change. This is why I've started the diary. <span style="float: right;">- From The Diary of Anne Frank</span>	
i.	Since Anne Frank felt she could not get any closer than talking about everyday ordinary things, select the appropriate scenario from the given list of experiences she would have liked to have with a friend/friends:	1




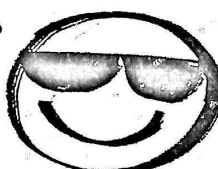

A. Rachel is sitting alone in the apartment, sobbing in the dark living room. Joey walks in casually. He says "I didn't know you would be at home this time." "Yes, I wasn't supposed to be but I just lost my job," she replies. Joey clumsily utters, "Oh, I am sorry. I came in for the leftover Turkey from Thanksgiving dinner." Rachel turns her face away. Joey takes the turkey from the fridge and walks out awkwardly.

B. Max and her step-brother Billy moved to Hawkins. Both are admitted to the same school, where she meets Lucas, Dustin, Mike and Will. After a few weeks, she tells them that she has been bullied by Billy ever since they moved to this town. She feels like running away and never return. To this Mike replies, "You need to sort things out with Billy by yourself. He is your family now."

C. Harry often feels isolated, haunted by his violent past. During Christmas, when all the students of Hogwarts have gone home for vacation, he finds Ron and Hermione have stayed back to give him company. They knew he had no home to go back to. He breaks down and opens up about his fear and insecurities rooted in his past.

D. Stilgar takes Paul to his home after he lost his father. He looked under the weather and stayed unkept all the time. He did not have the motivation to stand up and move forward. After a month Stilgar asks Paul to find a room or a hotel as it was becoming difficult for the latter's family to have an extra member to care.

ii.	Which of the sentences below uses the word 'liable' in the wrong context? A. The roads are slippery after the rain, and accidents are liable to happen if drivers aren't cautious. B. She knows her impulsive behaviour is liable to cause misunderstandings with her friends. C. The cake is liable to be delicious with all these high-quality ingredients. D. The credit-card company is liable for any breach of contract.	1
iii.	Complete Anne's thoughts she might have written down in her journal: People might judge me if I say I am all alone in the world but they don't know _____.	1
iv.	Why was it <i>important</i> for Anne to start writing a diary?	2
7.	Read the given extracts and answer ANY ONE of the given questions:	5
A.	He stalks in his vivid stripes The few steps of his cage, On pads of velvet quiet, In his quiet rage.  He should be lurking in shadow, Sliding through long grass Near the water hole Where plump deer pass.  - The Tiger in the Zoo	
i.	Which of the following sentences contain the same figure of speech as used in 'quiet rage'? A. Discover the timeless art of fleeting moments in our workshops. B. Workshops are where a chaotic order is necessary to spark creativity. C. Renowned artists host engaging sessions filled with innovative ideas. D. Experience the vibrant blend of tradition and modernity in every session.	1
ii.	Select the option that applies the same rhyme scheme as the lines of the given extract.  A. I come from haunts of coot and hern, I make a sudden ally And sparkle out among the fern, To bicker down a valley.  B. I went down to the river, I set down on the bank I tried to think but couldn't, So I jumped in and sank.  C. Eternities before the first-born day, And I who have written much in prose and verse For others' uses, will write now for mine,- Will write my story for my better self,  D. Turning and turning in the widening gyre The falcon cannot hear the falconer; Things fall apart; the centre cannot hold; Mere anarchy is loosed upon the world	1

iii.	Pick out the phrase that <b>does not</b> indicate the lush state of the forest. A. long grass B. plump deer C. lurking shadow D. water hole	1				
iv.	The poem subverts the image of the tiger as a symbol of strength to promote a message. Substantiate the statement by explaining it with suitable textual references.	2				
<b>OR</b>						
B.	The fog comes on little cat feet. It sits looking over harbour and city on silent haunches and then moves on.					
-The Fog						
i.	"The fog comes on little cat feet" is to the fog's approach as: A. A lion's roar is to dominance B. A feather's fall is to lightness C. A thunderstorm is to chaos D. A mountain is to immovability	1				
ii.	Standing by the harbour, which of these emojis would the poet send to his friend to express his feeling about being in the city at the moment?  A  B  C  D 	1				
iii.	The purpose of the minimalism used in the poem is to: A. Create a complex narrative B. Focus on the fog's essence and behaviour C. Detail the surroundings extensively D. Build suspense and tension	1				
iv.	The poet uses the phrasal verb -move on. Choose the option that <b>does not</b> indicate a valid phrasal verb.  <div style="text-align: center;"> <p><b>MOVE</b></p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding-right: 10px;">2. up</td> <td style="border-left: 1px solid black; padding-left: 5px;">1.along</td> </tr> <tr> <td style="padding-right: 10px;">4.out</td> <td style="border-left: 1px solid black; padding-left: 5px;">3.at</td> </tr> </table> </div> A. option 1 B. option 2 C. option 3 D. option 4	2. up	1.along	4.out	3.at	1
2. up	1.along					
4.out	3.at					
v.	Complete the following response of the cat:   <i>I was so overwhelmed to find this poem! I could not believe the poet used me as a _____</i>	1				

8.	Answer ANY FOUR of the following five questions in about 40-50 words:	4x3
i.	Assess the effectiveness of including a conversation about dogs between Lomov and Natalya.	
ii.	While the policy of apartheid produced a 'deep and lasting wound' on the African people, there was an 'unintended' effect of the same policy. Develop your answer to explain why the effect has been called 'unintended'.	
iii.	"But, not knowing otters, I was quite unprepared for what followed"- Discuss the incidents that followed to illustrate an otter's behaviour.	
iv.	Evaluate Frost's choice of the symbols, in his poem "Dust of Snow".	
v.	"The most laidback individuals become converts to the life of high-energy adventure"- Bring out the significance of this line.	
9.	Answer ANY TWO of the following three questions in about 40-50 words:	2x3
i.	The theme of trust and redemption is intertwined with the impact of trust and compassion on human behaviour in The Thief's Story. Discuss this with special reference to Hari Singh's transformation in the story.	
ii.	What role does the element of surprise play in resolving the conflict in the story The Midnight Visitor?	
iii.	Explain how the misunderstanding of a nursery rhyme leads to humorous consequences in the story The Book That Saved the Earth.	
10.	Answer ANY ONE of the following two questions in about 100-120 words.	1x6
i.	Both A Letter to God by G.L. Fuentes and The Ball Poem by John Berryman explore the themes of loss and human resilience, though through different lenses—faith and maturity. How do the protagonists in these works cope with their respective losses, and what insights do these responses offer about the human condition and the process of rebuilding hope?	
OR		
ii.	The two stories in Two Stories about Flying delve into the themes of courage, self-discovery, and the transformative power of overcoming fears. How do the experiences of the young seagull in His First Flight and the pilot in The Black Aeroplane illustrate the significance of facing challenges and trusting one's instincts to navigate life's uncertainties?	
11.	Answer ANY ONE of the following two questions in about 100-120 words.	1x6
i.	The motion of a debate states: "Griffin is a man without a conscience." As a member of the team speaking for the motion, craft a compelling opening speech that highlights Griffin's motivations and contextualizes his behaviour. Ensure that your argument is persuasive and rooted in evidence from the text.	
OR		
ii.	"A teacher holds the power to illuminate minds, dismantle stereotypes, and sow the seeds of justice, transforming society one lesson at a time." How does this idea resonate in the story of Bholi, showcasing the transformative role of a teacher in shaping a young girl's destiny and inspiring a ripple effect of change within society?	



# Delhi Public School, Howrah

Pre-Board II Examination (2024 – 2025)

Class-X

Care must be taken not to write anything on the question paper. All the questions must be attempted in the correct sequence.

Subject: - Mathematics Standard (Code No - 041)

Time: 3 Hours

F.M. : 80

General Instructions:

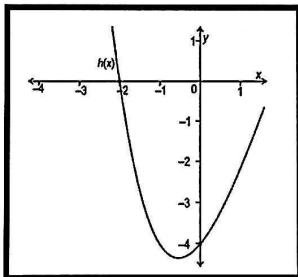
Read the following instructions carefully and follow them:

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9. Draw neat and clean figures wherever required.
10. Take  $\pi = 22/7$  wherever required if not stated.
11. Use of calculators is not allowed.

## SECTION A

(All questions are compulsory. In case of internal choice, attempt any one question only)

(1) Shown below is a part of the graph of a quadratic polynomial  $h(x)$ .



On dividing  $h(x)$  by which of the following will the remainder be zero?

- a)  $(x - 2)$                       b)  $(x + 2)$                       c)  $(x - 4)$                       d)  $(x + 4)$                       1
- (2) Harsh correctly solved a pair of linear equations in two variables and found their only point of intersection as  $(3, -2)$ . One of the lines was  $x - y = 5$ . Which of the following could have been the other line?                      1
- (i)  $3x - 3y = 15$                       (ii)  $2x - 3y = 12$                       (iii)  $2x - 3y = 14$
- a) only (i)                      b) only (ii)                      c) only (i) and (ii)                      d) only (ii) and (iii)
- (3) Which of the following points is the mid-point of the line segment joining  $A(-1, 2)$  and  $Q(3, 6)$ ?                      1
- a)  $(6, 4)$                       b)  $(6, -4)$                       c)  $(-6, 4)$                       d)  $(1, 4)$

(4) 4 groups in a class were asked to come up with an Arithmetic Progression. Shown below are their responses:

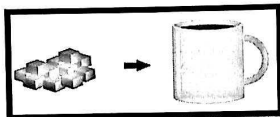
Group	Arithmetic Progression
M	4, 2, 0, -2, ...
N	41, 38.5, 36, 33.5, ...
O	-19, -21, -23, -25, ...
P	-3, -3, -3, -3, ...

Which of these groups correctly came up with an AP?

- a) only groups M and O  
c) only groups M, N and O

- b) only groups N and O  
d) all groups – M, N, O and P

(5) Aniska melted 11 chocolate cubes to fill up a cylindrical cup as shown below. If the length of the side of each cube is  $k$  cm and the radius of the cup is  $r$  cm, which of these represents the height of the melted chocolate in the cup?



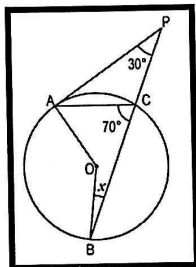
a)  $\frac{7k^3}{4r}$

b)  $\frac{7k^3}{2r^2}$

c)  $\frac{7k^2}{4r}$

d)  $\frac{7k^2}{2r^2}$

(6) In the figure given below, PA is a tangent to the circle with centre O and PCB is a straight line. Find the measure of  $\angle OBC$ .



a)  $40^\circ$

b)  $50^\circ$

c)  $130^\circ$

d) None of these

(7) If  $\cos y = 0$ , what is the value of  $\frac{1}{2} \cos\left(\frac{y}{2}\right)$ ?

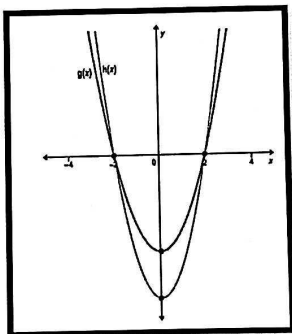
a) 0

b)  $\frac{1}{2}$

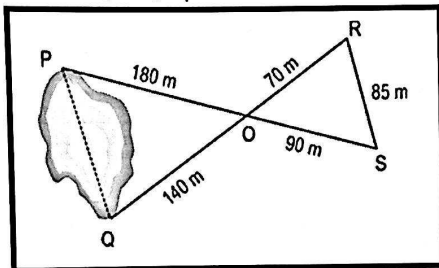
c)  $\frac{1}{\sqrt{2}}$

d)  $\frac{1}{2\sqrt{2}}$

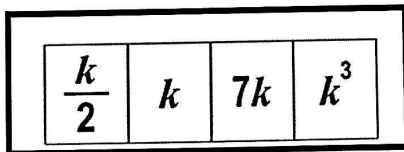
(8) The following figure shows the graph of two polynomials  $g(x)$  and  $h(x)$ . When  $h(x)$  is divided by  $(x-3)$  then the remainder is  $k$ .



- Which of these is true for the remainder when  $g(x)$  is divided by  $(x-3)$ ? 1
- a) It is less than  $k$  b) It is equal to  $k$
- c) It is more than  $k$  d) cannot conclude without knowing the polynomials
- (9) In statistics, an outlier is a data point that differs significantly from other observations of a data set. If an outlier is included in the following data set, which measure(s) of the central tendency would change? 1
- 12, 15, 22, 44, 44, 48, 50, 51
- a) only mean b) only mean and median
- c) all – mean, median, mode d) cannot be said without knowing the outlier
- (10) A geologist asked his assistant Annie to find the length of the lake, PQ, from the information shown below. What is the length of the lake PQ if PQ is parallel to RS? 1



- a) 170 m b) 160 m c) 70 m d) 25 m
- (11) If one root of the quadratic equation  $ax^2 + bx + c = 0$  is three times the other, then  $b^2 : ac$  is 1
- a) 3: 1 b) 16: 3 c) 3: 16 d) 4: 3
- (12) Find the value of  $\frac{\sin^2 30^\circ - \cot^2 60^\circ}{\tan 30^\circ - \cot^2 45^\circ}$ . 1
- a) 2 b) 4 c) 1 d) None of these
- (13) A chord of length  $2\sqrt{2}$  cm subtends an angle of  $90^\circ$  at the centre of a circle. Find the area of the minor sector in terms of  $\pi$ . 1
- a)  $249 \pi \text{ cm}^2$  b)  $12\pi \text{ cm}^2$  c)  $\pi \text{ cm}^2$  d) None of these
- (14) Pratik has blue and green coins of the same size in a bag. He has 50 coins each of blue and green. He is randomly picking up one coin at a time without replacement. He does not see which coin he has picked. What is the minimum number of coins he would have to pick to definitely get a pair of blue or green coins? 1
- a) 2 b) 3 c) 4 d) 5
- (15) Let  $p$  be a prime number and  $k$  be a positive integer. If  $p$  divides  $k^2$ , then which of these is definitely divisible by  $p$ ? 1



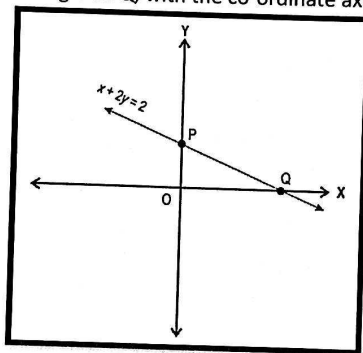
- a) only  $k$  b) only  $k$  and  $7k$  c) only  $k$ ,  $7k$  and  $k^3$  d) None of these
- (16) A survey was conducted on 80 gamers on how many games did they play in a day. The data is given below. 1

Number of games	Number of gamers
1 - 2	20
2 - 3	24
3 - 4	10
4 - 5	12
5 - 6	8
6 - 7	4
7 - 8	2

Which of the following is the modal class?

- a) 1 - 2                                      b) 2 - 3                                      c) 4 - 5                                      d) 7 - 8

(17) The line  $x + 2y = 2$  forms a triangle OPQ, with the co-ordinate axes.



What is the area of the triangle formed by the line and the axes?

- a) 1                                              b) 2                                              c) 3                                              d) 4                                              1

(18) A number was selected at random from 1 to 100 (inclusive of both the numbers) and it was found to be a multiple of 10. What is the probability that the selected number is a multiple of 5?                                              1

- a)  $\frac{1}{10}$                                               b)  $\frac{1}{5}$                                               c)  $\frac{1}{2}$                                               d) 1

For questions 19 and 20, two statements are given – one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (i), (ii), (iii) and (iv) as given below:

- (i) Both A and R are true and R is the correct explanation of the assertion.  
(ii) Both A and R are true but R is not the correct explanation of the assertion.  
(iii) A is true, but R is false.  
(iv) A is false, but R is true.

(19) Assertion (A): If two chords of a circle are equidistant from the center, then they are equal in length.  
Reason (R): Perpendiculars drawn from the center of the circle to the chords bisect the chords.                                              1

- a) (i)                                              b) (ii)                                              c) (iii)                                              d) (iv)

(20) Assertion (A): The volume of a sphere is two times the volume of a hemisphere of the same radius.  
Reason (R): The total surface area of a sphere is equal to the curved surface area of a hemisphere with the same radius.

- a) (i)                                              b) (ii)                                              c) (iii)                                              d) (iv)                                              1

## SECTION B

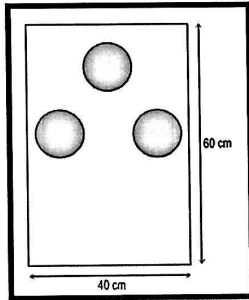
(All questions are compulsory. In case of internal choice, attempt any one question only)

(21) (a) Grow More Plantations have two rectangular fields of same width but of different lengths. They are required to plant 84 trees in the smaller field and 231 trees in the larger field. In both the fields, the trees will be planted in the same number of rows but of different numbers of columns. Based on the above information, answer the following questions.

- (i) What is the maximum number of rows required for this arrangement? 1  
 (ii) If the trees are planted in the number of row obtained in part (i), how many columns will each field have? 1

OR

- (21) (b) M and N are positive integers such that  $M = p^2q^3r$  and  $N = p^3q^2$ , where  $p, q, r$  are prime numbers. Find the HCF (M,N) and the LCM (M,N). 2  
 (22) (a) Roshni is playing a dart throwing game. In the game, players throw a dart at a wooden board from a safe distance. If the dart hits inside any one of the shaded circles, they score a point. 2



The radius of each circle is 5 cm. Roshni is randomly throwing darts at the board. If each dart Roshni throws hits the board, what is the probability of her scoring a point?

OR

(22)(b) At an ice cream shop, there are two freezers, each containing different quantities of chocolate and vanilla flavoured icecreams as shown below.

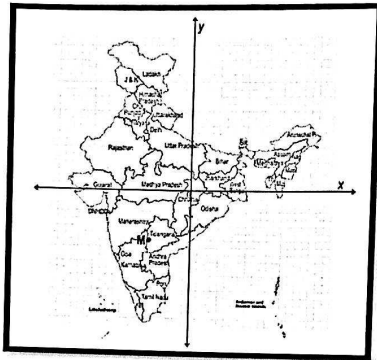
Flavour of Ice cream	Freezer 1	Freezer 2
<b>Chocolate</b>	3	6
<b>Vanilla</b>	2	4

Vikram won an offer to choose an ice cream at random from one of the freezers. He wants a vanilla ice-cream. He believes that selecting from Freezer 2 is more likely to get him a vanilla ice-cream because it has a higher number of them compared to Freezer 1. Is Vikram correct? Justify your answer. 2

(23) Evaluate:  $\frac{\operatorname{cosec}^2x - \sin^2x \cot^2x - \cot^2x}{\sin^2x}$  2

(24) Raji and Gagan are finding treasure that is exactly on the straight line joining them. Raji's location is at  $(-6, -5)$  and Gagan's location is at  $(10, 11)$ . The distance from the treasure to Raaji's location is three times that of the distance to Gagan's location. Find the co-ordinates of the location of the treasure. 2

(25) Shown below is the map of India put on a coordinate plane where each small square represents 1 sq unit. 2



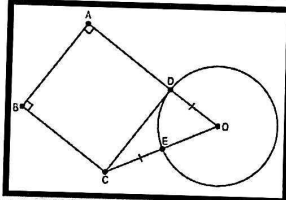
Alok has to travel from his home at point  $(0, 5)$  in Uttar Pradesh to point  $M(-6, -7)$  in Telangana. Assume that his travels happen in the shortest straight path.

- i) Find the approximate distance he travels from his home to reach point  $M$  in Telangana.
- ii) He plans to take 2 stops in his journey such that his journey is divided into 3 equal parts. Find the coordinates of his stops.

### SECTION C

(All questions are compulsory. In case of internal choice, attempt any one question only)

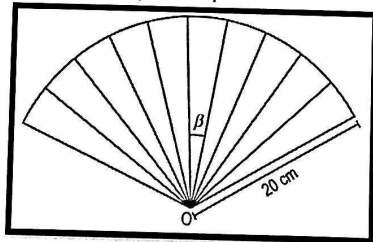
- (26) State and prove Basic Proportionality Theorem. 3
- (27) Frame a quadratic polynomial whose zeroes are  $\frac{2+\sqrt{5}}{3}$  and  $\frac{2-\sqrt{5}}{3}$ . 3
- (28) Without actually calculating the zeroes, form a quadratic polynomial whose zeroes are the reciprocals of the zeroes of the polynomial:  $x^2 + 10x - 9$ . 3
- (29) If  $\frac{1}{\sin \theta - \cos \theta} = \frac{\operatorname{cosec} \theta}{\sqrt{2}}$  prove that  $\left(\frac{1}{\sin \theta + \cos \theta}\right)^2 = \frac{\sec^2 \theta}{2}$ . 3
- (30) (a)  $ABCD$  is a square.  $CD$  is a tangent to the circle with centre  $O$  as shown in the figure given below.



If  $OD = CE$ , what is the ratio of the area of the circle and the area of the square? Show your steps and give valid reasons. 3

OR

- (30)(b) The figure given is a part of a circle with centre  $O$ . Its area is  $\frac{1250\pi}{9} \text{ cm}^2$  and the 10 sectors are identical. Find the value of  $\beta$  in degrees. Show your steps. 3



- (31) Prove that  $\sqrt{3}$  is an irrational number. 3

### SECTION D

(All questions are compulsory. In case of internal choice, attempt any one question only)

(32) (a) Solve the following pairs of linear equations in two variables graphically.

$$2x - 3y = 6$$

$$x + y = 3$$

Identify the shape resulting from the intersection of the pair of equations with the Y axis and write its vertex co-ordinates. Also calculate the area obtained from the resulting shape. 5

OR

(32)(b) Arvind owns a dry-fruit store. He sells cashew nuts at ₹ 600/kg and pistachio nuts at ₹ 750/kg. A customer asks for a mixture of cashew nuts and pistachio nuts with the following conditions:

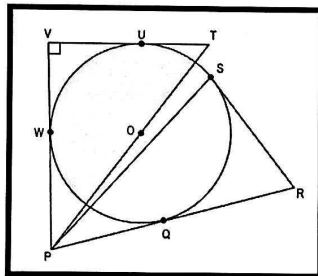
(i) both the items should together weigh 500 gm.

(ii) both the items should together cost ₹ 360.

(a) If Arvind packs  $x$  kg of cashew nuts and  $y$  kg of pistachio nuts for the customer, frame the equations that represent the given context.

(b) Find the weight of cashew nuts and pistachio nuts that Arvind packed for the customer. 5

(33) Shown below is a circle with centre  $O$ .  $VP = 34$  cm,  $PR = 36$  cm and  $RS = 17$  cm.  $U, W, Q, S$  are the points of tangency.



Find the area of the shaded region in terms of  $\pi$ . Show the steps and give valid reasons.

(34) A window of a house is  $h$  metres above the ground. From the window, the angles of elevation and depression of the top and bottom of another house situated on the opposite side of the lane are found to be  $\alpha$  and  $\beta$  respectively. Prove that the height of the other house is  $h(1 + \tan \alpha \cot \beta)$  metres. 5

(35) (a) The mean of the following distribution is 53. But the frequencies  $f_1$  and  $f_2$  in the classes 20 -40 and 60 -80 are missing. Find the missing frequencies. 3

CLASS INTERVAL	FREQUENCY
0-20	15
20-40	$f_1$
40-60	21
60-80	$f_2$
80-100	17
TOTAL	100

OR

(35)(b) The following frequency distribution gives the monthly consumption of electricity of 68 consumers of a locality. Find the median, mode and the mean of the following data. 5

Monthly Consumption (in units)	65 -85	85 - 105	105 - 125	125 - 145	145 - 165	165- 185	185 - 205
No. of consumers	4	5	13	20	14	8	4

## SECTION E

(All questions are compulsory. In case of internal choice, attempt any one question only)

### 36. CASE STUDY – I:

"Biriyani Bonanza" is a renowned restaurant in the heart of the city, famous for its wide variety of biryanis.

In January 2024, the owner, Mr. Rizwan, decided to launch a new biryani flavor every month to keep the menu fresh and attract more customers. The new flavors are not only unique but also follow a pattern in their order growth. The biryani flavors introduced each month and their respective initial orders are as follows:



January: Hyderabad Delight - 60 orders; February: Lucknowi Luxury - increase by a fixed number of orders each month i.e. 20. March: Kolkata Classic; April: Mumbai Magic; May: Delhi Dhamaka; June: Chennai Charm; July: Malabar Marvel; August: Amritsari Azaadi; September: Kashmiri Kesar; October: Goan Grandeur; November: Punjabi Pataka; December: Rajasthani Royalty.

Mr. Rizwan noticed that the increase in orders each month forms an arithmetic progression. Based on the above information, answer the following questions:

(i) Suppose that during festive months (e.g., December), the number of orders for all biryanis increases by 50%. How would this affect the total number of orders in December 2024? 1

(ii) Calculate the total number of orders for the first 12 months. 1

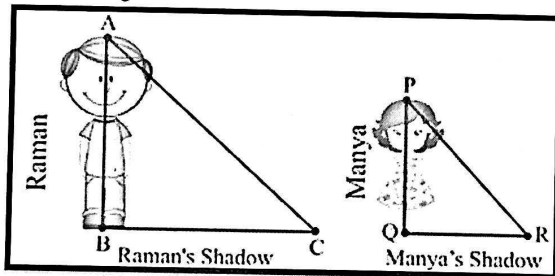
(iii) (a) Determine the total number of orders for the month of May. 2

OR

(iii) (b) Assuming the current pattern continues, how many total orders will be placed by the end of the second year (24 months)? 2

### 37. CASE STUDY – II:

Raman is 6 feet tall and is standing outside next to his younger sister Manya. He note that he can see both of their shadows and decides to measure each shadow at the same instant of time. His shadow is 8 ft long and his sister's shadow is 5 feet long.



Based on the above information, answer the following questions:

(i) To find the height of Raman's sister with the given information, which mathematical concept will be used? 1

(ii) (a) Find the height of Manya. 2

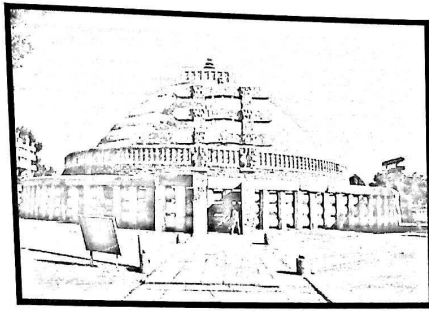
OR

(ii) (b) From the above figure, find the length of AC and PR. 2

(iii) Write the correct symbolic form of similarity of  $\triangle ABC$  and  $\triangle PQR$ . 1

### (38) CASE STUDY – III:

Sanchi Stupa is a Buddhist Complex, famous for its Great Stupa, on a hill top at Sanchi Town in Madhya Pradesh. It is located in 46 km north – east of Bhopal, the capital of Madhya Pradesh. It is a hemisphere surmounted on a cylinder of same radius 35 m. The total height of the structure is 45 m.



Based on the above information, answer the following questions:

- (i) What is the height of the cylindrical part? 1
- (ii) The hemispherical dome is to be painted brown and the cylindrical part is to be painted orange. Find the area which needs to be painted brown. 1
- (iii)(a) Find the volume of air in the structure (in terms of  $\pi$ ) in  $\text{m}^3$ . 2
- OR**
- (iii)(b) If the volume of a solid hemisphere is  $19404 \text{ m}^3$ , then find the total surface area of the hemisphere. 2

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# Delhi Public School, Howrah

Pre-Board II Examination (2024 – 2025)

Class-X

Care must be taken not to write anything on the question paper. All the questions must be attempted in the correct sequence.

Subject: - Mathematics Basic (Code No - 241)

Time: 3 Hours

F.M. : 80

General Instructions:

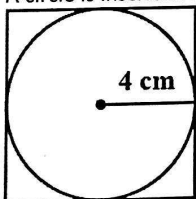
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10. Take  $\pi = 22/7$  wherever required if not stated.
11. Use of calculators is not allowed.

## Section A

(Section A consists of 20 questions of 1 mark each.)

- 1) If the LCM of 12 and 42 is  $(10m + 4)$ , then the value of m is: [1]  
(a) 50      (b) 8      (c)  $\frac{1}{5}$       (d) 1
- 2) The pair of equations  $y = 0$  and  $y = -7$  has: [1]  
(a) one solution      (b) two solutions      (c) infinitely many solutions      (d) no solution
- 3) Value(s) of k for which the quadratic equation  $2x^2 - kx + k = 0$  has equal roots is: [1]  
(a) 0 only      (b) 4      (c) 8 only      (d) 0,8
- 4) The perimeter of a triangle with vertices  $(0, 4)$ ,  $(0, 0)$  and  $(3, 0)$  is [1]  
(a) 5 units      (b) 12 units      (c) 11 units      (d)  $(7 + \sqrt{5})$  units
- 5) A circle is inscribed in a square. If The radius of inscribed circle is 4 cm, then the length of tangent is: [1]



- (a) 4 cm      (b) 12 cm      (c) 8 cm      (d) Can't be determined

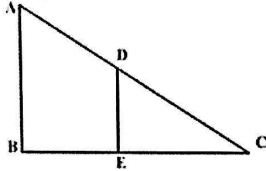
6) If in  $\triangle ABC$  and  $\triangle PQR$ ,  $\frac{AB}{QR} = \frac{BC}{PR} = \frac{CA}{PQ}$ , then

- (a)  $\triangle PQR \sim \triangle CAB$       (b)  $\triangle PQR \sim \triangle ABC$       (c)  $\triangle CBA \sim \triangle PQR$       (d)  $\triangle BCA \sim \triangle PQR$

7) If  $\cos A = \frac{4}{5}$ , then  $\tan A$  is:

- (a)  $\frac{3}{5}$       (b)  $\frac{3}{4}$       (c)  $\frac{4}{3}$       (d)  $\frac{1}{8}$

8) In  $\triangle ABC$ ,  $DE \parallel AB$ . If  $AB = a$ ,  $DE = x$ ,  $BE = b$  and  $EC = c$ , then  $x$  expressed in terms of  $a$ ,  $b$  and  $c$  is:



- (a)  $\frac{ac}{b}$       (b)  $\frac{ac}{b+c}$       (c)  $\frac{ab}{c}$       (d)  $\frac{ab}{b+c}$

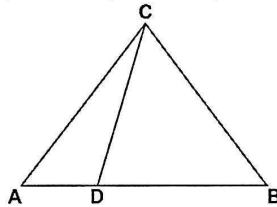
9) What is the greatest possible speed at which a man can walk 52 km and 91 km in an exact number of hours?

- (a) 17 km/hours      (b) 7 km/hours      (c) 13 km/hours      (d) 26 km/hours

10) Which term of the A.P.: 21, 42, 63, 84, ... is 210?

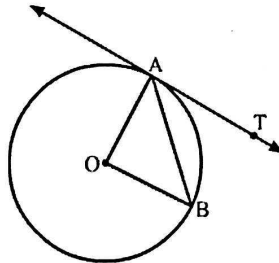
- (a) 9<sup>th</sup>      (b) 10<sup>th</sup>      (c) 11<sup>th</sup>      (d) 12<sup>th</sup>

11) In the given figure, if  $\angle ACB = \angle CDA$ ,  $AC = 8$  cm,  $AD = 3$  cm, then  $BD$  is:



- (a)  $\frac{22}{3}$  cm      (b)  $\frac{26}{3}$  cm      (c)  $\frac{55}{3}$  cm      (d)  $\frac{64}{3}$  cm

12) In the given figure, if  $O$  is the centre of a circle,  $AB$  is a chord and the tangent  $AT$  at  $A$  makes an angle of  $30^\circ$  with the chord, then  $\angle OAB$  is:



- (a)  $40^\circ$       (b)  $30^\circ$       (c)  $60^\circ$       (d)  $50^\circ$

The value of  $\sqrt{3} \operatorname{cosec} 60^\circ - \sec 60^\circ$  is

- (a) 0 (b) 1 (c) 2 (d) -1 [1]

14) A rectangular sheet of paper 40cm x 22cm, is rolled to form a hollow cylinder of height 40cm. The radius of the cylinder (in cm) is:

- (a) 3.5 (b) 7 (c)  $\frac{80}{7}$  (d) 5 [1]

15) A card is selected at random from a well shuffled deck of 52 cards. The probability of its being a red face card is

- (a)  $\frac{3}{26}$  (b)  $\frac{3}{13}$  (c)  $\frac{2}{13}$  (d)  $\frac{1}{2}$  [1]

16) If a root of the equation  $x^2 + bx + 12 = 0$  is 2 and the roots of the equation  $x^2 + bx + q = 0$  are equal, then the value of  $q$  is:

- (a) 8 (b) -8 (c) 16 (d) -16 [1]

17) Consider the following frequency distribution:

[1]

Class	0-6	6-12	12-18	18-24	24-30
Frequency	12	10	15	8	11

The median class is:

- (a) 6-12 (b) 12-18 (c) 18-24 (d) 24-30

18) If  $p$  is a prime number, then the quadratic equation having its roots as the factors of  $p$  is

[1]

- (a)  $x^2 - px + p = 0$  (b)  $x^2 - (p+1)x + p = 0$   
(c)  $x^2 + (p+1)x + p = 0$  (d)  $x^2 - px + p + 1 = 0$

**DIRECTION:** 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 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.

19) **Assertion (A):**  $-5, -\frac{5}{2}, 0, \frac{5}{2}, \dots$  is in Arithmetic Progression.

[1]

**Reason (R):** The terms of an Arithmetic Progression cannot have both positive and negative rational numbers.

20) **Assertion (A):** 2 is a prime number.

[1]

**Reason (R):** The square of an irrational number is always a prime number.

### Section B

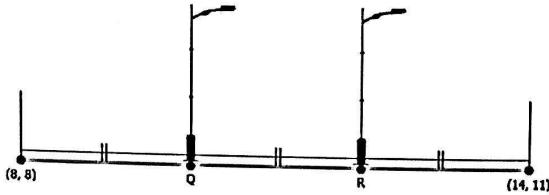
(Section B consists of 5 questions of 2 marks each.)

21) (A) If the point  $Q(0, 1)$  is equidistant from the points  $P(5, -3)$  and  $R(x, 6)$ , find the value of  $x$ . Also, find the distance  $PR$ .

[2]

OR

- 21) (B) Two poles are to be installed on an elevated road trisecting it as shown in the diagram. The diagram also shows the starting and the ending points of the road.



What will be the coordinates of the poles Q and R? [2]

- 22) The length of a tangent from a point A at distance 5cm from the centre of the circle is 4cm. Find the radius of the circle. [2]
- 23) (A) How many terms of the A. P : 9,17,25, ..... must be taken to make a sum 636? [2]

OR

- 23) (B) An A.P. consists of 50 terms of which the third term is 12 and the last term is 106. Find the 29<sup>th</sup> term. [2]
- 24) Prove that:  $(1 + \sin A)(\sec A - \tan A) = \cos A$  [2]
- 25) The mode of the following frequency distribution is 38. Find the value of x. [2]

Class Interval	0-10	10-20	20-30	30-40	40-50	50-60	60-70
Frequency	7	9	12	16	x	6	11

### Section C

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

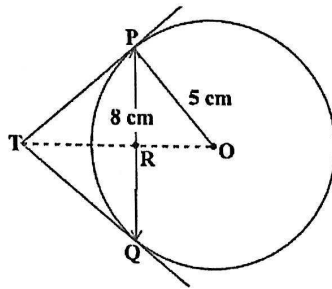
- 26) Prove that  $\sqrt{7}$  is an irrational number. [3]
- 27) (A) If vertices of a  $\triangle ABC$  are  $A(7, 3)$ ,  $B(5, 3)$  and  $C(3, -1)$ , then find the length of the median through vertex A. [3]

OR

- 27) (B) Determine the ratio in which the line  $2x + y - 4 = 0$  divides the line segment joining the points  $A(2, -2)$  and  $B(3, 7)$ . [3]
- 28) Prove that:  $\frac{\tan \theta}{1 - \cot \theta} + \frac{\cot \theta}{1 - \tan \theta} = 1 + \sec \theta \operatorname{cosec} \theta$  [3]
- 29) Find the mean using the step deviation method. [3]

Class	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60	60 - 70
Frequency	4	5	7	10	12	8	4

- (A) In the figure, PQ is a chord of length 8 cm of a circle of radius 5 cm. The tangents at P and Q intersect at a point T. Find the length TP. [3]



OR

- 30) (B) Prove that the lengths of tangents drawn from an external point to a circle are equal. [3]
- 31) The sum of the digits of a two-digit number is 9. Also, nine times this number is twice the number obtained by reversing the order of the digits. Find the number. [3]

#### Section D

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

- 32) (A) An express train takes 1 hour less than a passenger train to travel 132 km between Mysore and Bangalore (without taking into consideration the time they stop at intermediate stations). If the average speed of the express train is 11km/h more than that of the passenger train, find the average speed of the two trains. [5]
- OR
- 32) (B) The cost of four pens and one pencil box is ₹ 100. Three times the cost of a pen is ₹ 15 more than the cost of a pencil box. Form the pair of linear equations for the above situation. Find the cost of a pen and a pencil box. [5]
- 33) If a line is drawn parallel to one side of a triangle to intersect the other two sides in distinct points, then prove that the other two sides are divided in the same ratio. [5]
- 34) In a circle of radius 21 cm, an arc subtends an angle of  $60^\circ$  at the centre. Find:  
 (i) Length of the arc.  
 (ii) Area of the sector formed by the arc.  
 (iii) Area of the segment formed by the corresponding chord of the arc. [Use  $\sqrt{3} = 1.732$ ] [5]
- 35) (A) From a point 100 m above a lake the angle of elevation of a stationary helicopter is  $30^\circ$  and the angle of depression of reflection of the helicopter in the lake is  $60^\circ$ . Find the height of the helicopter above the lake. [5]

OR

- 35) (B) From the top of a tower, 100 m high, a man observes two cars on the opposite sides of the tower with the angles of depression  $30^\circ$  and  $45^\circ$  respectively. Find the distance between the cars. [Use  $\sqrt{3} = 1.732$ ] [5]

## Section E

### 36) Case Study-1:

Sunny goes to the ABC store to purchase juice cartons for his shop. The store has 80 cartons of litchi juice, 90 cartons of pineapple juice, 38 cartons of mango juice and 42 cartons of banana juice. Sunny chooses a carton at random.



Based on the above information, answer the following questions:

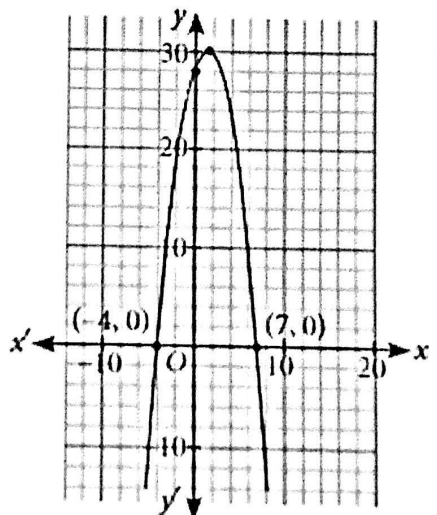
- Find the probability that the selected carton is of pineapple juice. [1]
- What is the probability that selected carton is of banana juice? [1]
- Sunny buys 4 cartons of pineapple juice, 3 cartons of litchi juice and 3 cartons of banana juice. A customer comes to Sunny's shop and picks a tetra pack of juice at random. Find the probability that the customer picks a banana juice, if each carton has 10 tetra packs of juice. [2]

OR

- If the storekeeper of ABC store bought 14 more cartons of pineapple juice, then find the probability of selecting a tetra pack of pineapple juice from the store, if each carton has 10 tetra packs of juice. [2]

### 37) Case Study-2:

Two friends Trisha and Rohan during their summer vacation went to Manali. They decided to go for trekking. While trekking they observe that the trekking path is in the shape of a parabola. The mathematical representation of the track is shown in the graph.



Based on the above information, answer the following questions:

- a) Find the zeros of the polynomial, whose graph is given. [1]
- b) According to the number of zeros, what kind of polynomial is represented by the given graph? Find the polynomial. [1]
- c) Find all the polynomials whose zeros are the reciprocal of the zeros of the polynomial represented by the given graph. [2]

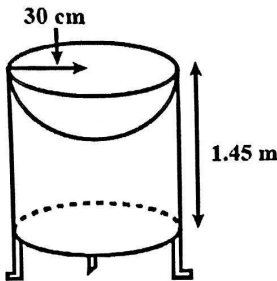
OR

- d) If  $f(x)$  is the polynomial represented by the given graph, then find the value of  $f(-2)$  and  $f(5)$ . [2]

38) **Case Study-3:**

A bird bath is a small shallow pond, or fountain, created for like a basin in which birds may drink, bathe and cool themselves.

One day, Aniket, a student of Class IV, saw some birds drinking water from potholes. He feels sad for them and asked his elder brother Anshumann, who is in Class X, to make a bird-bath. His brother bought some materials from their store and prepare a bird-bath in the shape of a cylinder with a hemispherical depression at one end. The height of cylindrical part of bird-bath is 1.45m and diameter of base is 60 cm.



Based on the above information, answer the following questions:

- a) Find the curved surface area of the cylindrical part of the bird-bath. [1]
- b) Find the volume of water that can be contained in the bird-bath. [1]
- c) Find the total surface area of the bird-bath. [2]

OR

- d) Find the ratio of the volumes of the cylindrical part and the hemispherical part of the bird-bath. [2]



# Delhi Public School, Howrah

PRE BOARD II EXAMINATION (2024-2025)

Class-X

Care must be taken not to write anything on the question paper. All the questions must be attempted in the correct sequence.

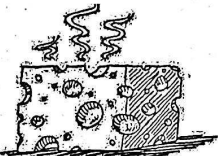
Subject: - Science (Code No. 086)

Time: -3 Hours

F.M.-80

General Instructions:

1. All questions are compulsory. However, an internal choice of approximately 33% is provided. 50% marks is allotted to competency-based questions.
2. Section A has 16 simple/complex MCQs and 04 Assertion-Reasoning type questions carrying 1 mark each.
3. Section B has 6 Short Answer (SA) type questions carrying 02 marks each.
4. Section C has 7 Short Answer (SA) type questions carrying 03 marks each.
5. Section D has 3 Long Answer (LA) type questions carrying 05 marks each.
6. Section E has 3 source based/case based/passage based/Integrated units of assessment (04 marks each) with sub-parts of the values of 1/2/3 marks.

SECTION A		
Question 1 to 16 are multiple choice questions. Only one of the choices is correct. Select and write the correct choice as well as the answer to these questions.		
Q. No.	Questions	Marks
1.	<p>The food items like cheese that is shown in the given below image become unfit for eating. This happens due to:</p>  <p>(a) Corrosion (b) Rusting (c) Dusting (d) Rancidity</p>	1
2.	<p>Bleaching powder is produced by the action of chlorine on</p> <p>(a) calcium chloride (b) calcium hydroxide (c) dry slaked lime (d) moist slaked lime</p>	1
3.	<p>When ethanoic acid is treated with <math>\text{NaHCO}_3</math> the gas evolved is</p> <p>(a) <math>\text{H}_2</math> (b) <math>\text{CO}_2</math> (c) <math>\text{CH}_4</math> (d) <math>\text{CO}</math></p>	1

4. Which of the following are exothermic processes?

- (i) Reaction of water with quick lime
- (ii) Dilution of an acid
- (iii) Evaporation of water
- (iv) Sublimation of camphor (crystals)

- (a) (i) and (ii)
- (b) (ii) and (iii)
- (c) (i) and (iv)
- (d) (ii) and (iv)

1

5. Aqueous solutions of zinc sulphate and iron sulphate were taken in test tubes I and II by four students A, B, C and D. Metal pieces of iron and zinc were dropped in the two solutions and observations made after several hours were recorded in the form of table as given below:

1

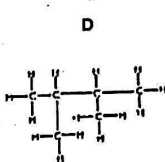
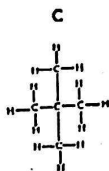
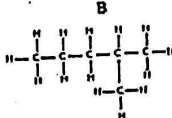
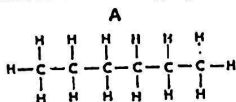
STUDENT	METAL	SOLUTION	COLOR CHANGE OF SOLUTION	DEPOSIT/COUNTING OBTAINED
A	Fe	ZnSO <sub>4</sub>	Turned green	Silvery grey coating
	Zn	FeSO <sub>4</sub>	No change	No change
B	Fe	ZnSO <sub>4</sub>	No change	Black deposit
	Zn	FeSO <sub>4</sub>	Colour faded	Grey coating
C	Fe	ZnSO <sub>4</sub>	No change	No change
	Zn	FeSO <sub>4</sub>	Turned colourless	Black deposit
D	Fe	ZnSO <sub>4</sub>	No change	Grey deposit
	Zn	FeSO <sub>4</sub>	No change	Black deposit

The correct reporting has been made by:

- (a) Student A
- (b) Student C
- (c) Student D
- (d) Student B

6. Which of the following represent the formula C<sub>6</sub>H<sub>14</sub>?

1



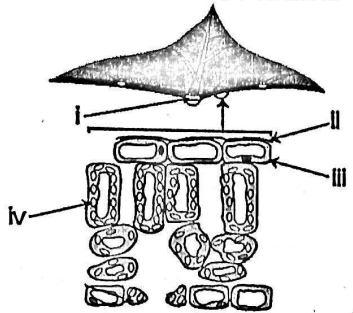
- (a) A, B and D
- (b) A and C
- (c) A only
- (d) A and B

7. Which of the following elements occurs in free state in nature?  
 (a) Fe  
 (b) Ni  
 (c) Pt  
 (d) Co

1

8. Given below is a cross section of a leaf. Identify i, ii, iii and iv.

1



- (a) i=vascular bundles, ii=cuticle, iii=epidermis, iv= chloroplast  
 (b) i=cuticle, ii=epidermis, iii=midrib, iv= chloroplast  
 (c) i=vascular bundles, ii=stomata, iii=epidermis, iv= cuticle  
 (d) i=epidermis, ii=cuticle, iii=vein, iv= vascular bundles

9. Two individuals are as shown using geometric shapes. Their sex chromosomes are respectively denoted by  $X^f$ ,  $X^m$  and Y.

1

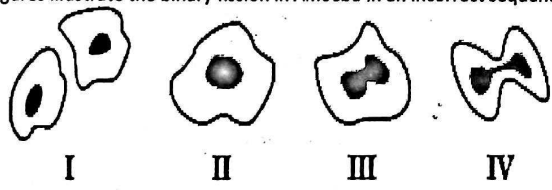


What are the possible combinations of sex chromosomes for their male and female offsprings respectively?

- (a)  $X^f X^m$  and  $X^m X^m$   
 (b)  $X^m Y$  and  $X^m X^m$   
 (c)  $X^f Y$  and  $X^m Y$   
 (d)  $X^m Y$  and  $X^m X^f$

10. The following figures illustrate the binary fission in *Amoeba* in an incorrect sequence:

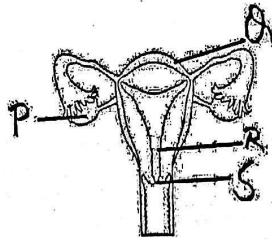
1



The correct sequence is:

- (a) (I), (III), (IV), (II)  
 (b) (II), (III), (IV), (I)  
 (c) (IV), (III), (II), (I)  
 (d) (III), (IV), (II), (I)

11. The image shows the female reproductive system. Which option depicts the correct sites of egg fertilisation and zygote implantation in normal conditions?



	Egg fertilisation	Zygote formation
(a)	P	S
(b)	Q	R
(c)	S	Q
(d)	R	Q

1

12. Patient X was suffering from a pancreatic condition due to which the pancreas was not functioning adequately. Which of the following is a doctor likely to suggest to such an individual?

- (a) Including a large amount of protein in the diet.
- (b) Eating a diet with low-fat content.
- (c) Eating only carbohydrates.
- (d) Including only liquid foods.

1

13. Ayush has connected three voltmeters across three resistors of resistances  $R_1$ ,  $R_2$  and  $R_3$ . The three resistances are connected in series. The three voltmeters are showing potential differences  $V_1$ ,  $V_2$  and  $V_3$  respectively. If  $R_1 < R_2 < R_3$ , then which one of the following options will be correct?

- (a)  $V_1 > V_2 > V_3$
- (b)  $V_1 < V_2 < V_3$
- (c)  $V_1 = V_2 = V_3$
- (d)  $V_1 = V_2 > V_3$

1

14. Four students A, B, C and D were asked to tabulate the position, size and nature of image formed by convex lens when object is placed at its focus by drawing its ray diagram. Their observations are given below:

	A	B	C	D
POSITION OF IMAGE	At $2f$	At $f$	At infinity	Between $f$ and $2f$
SIZE	Enlarged	Diminished	Enlarged	Enlarged
NATURE	Real	Virtual	Real	Real

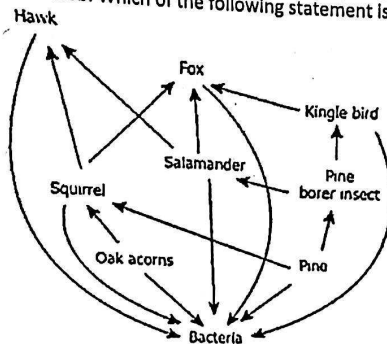
Which student made the correct observation?

- (a) C
- (b) D
- (c) A
- (d) B

1

15.

Given below is a food web. Which of the following statement is true for the food web?

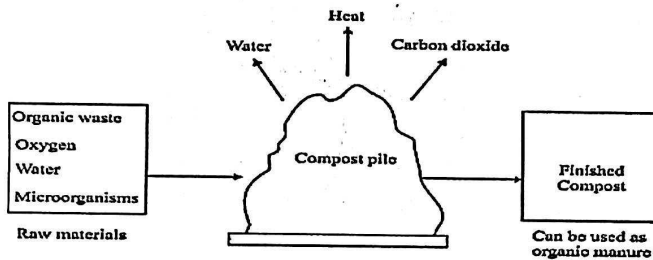


- (a) Fox feeds on hawk to obtain energy.  
 (b) Hawk feeds on oak acorn to obtain energy.  
 (c) Squirrel feeds on pine borer to obtain energy.  
 (d) Salamander feeds on pine borer to obtain energy.

1

16.

Composting is the process where organic wastes are degraded into compost. The diagram shows the details of the process.



What can be concluded from the diagram?

- (a) Composting helps in recycling plastic scraps.  
 (b) Composting absorbs heat from the environment.  
 (c) Composting takes place only in the presence of oxygen.  
 (d) Composting takes place either in the presence of oxygen or carbon dioxide.

1

Question No. 17 to 20 consist of two statements – Assertion (A) and Reason (R). Answer these questions by selecting the appropriate option given below:

- 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

17.

Assertion (A): Soaps are not suitable for washing purpose when water is hard.  
 Reason (R): Soaps have relatively weak cleansing action.

1

18.

Assertion (A): Diabetes mellitus is caused due to lack of insulin in the body.  
 Reason (R): Insulin helps in the proper utilization of glucose in the body.

1

19.

Assertion (A): A compass needle is placed near a current carrying wire. The deflection of the compass needle increases when the magnitude of an electric current in the wire is decreased.  
 Reason (R): Strength of a magnetic field at a point near the conductor increases on increasing the current.

1

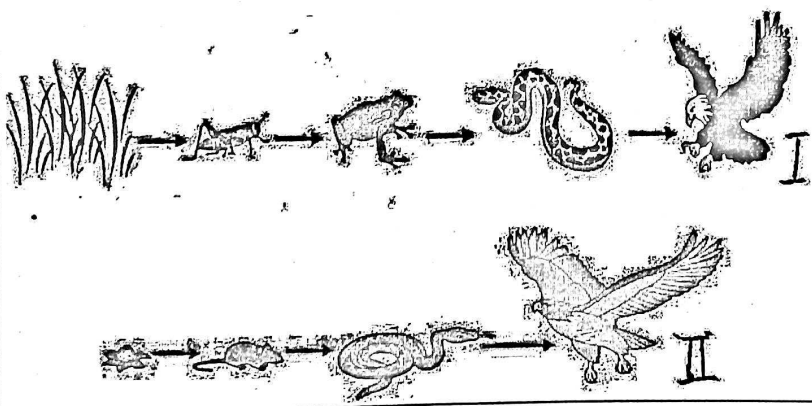
20.	Assertion (A): Omnivores receive 10% of their energy from the trophic level below them. Reason (R): An omnivore is always in the trophic level just above herbivores.	1
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**SECTION B**

**Question No. 21 to 26 are very short answer questions**

21.	(a) What type of bond exists in (i) $CCl_4$ (ii) $CaCl_2$ ? (b) Show Lewis dot structure of any of the above.	2
22.	Ravi cultivated mustard, a plant with bisexual flowers, on his farm. His plants were diseased due to a gene defect and therefore had reduced yield. Ravi removed the stamens from the diseased plants and also planted fresh disease-free mustard plants where he removed the pistils. How will Ravi's strategy help in improving the yield of mustard?	2
23.	<u>Attempt either option a or b.</u> (a) How is required pH maintained in the stomach and small intestine respectively? <b>OR</b> (b) While going out for few days to visit his grandmother, Adi kept all his potted plants inside the room. On returning, he saw that all the leaves have become yellow. What would be the reason?	2
24.	(a) While boating in a lake, Neha saw a beautiful fish and tried to catch it, thinking it was very close. Her parents told her that fishes are in deep water and they are appearing close by. She finally listened to them and enjoyed watching them from the boat. Why do fishes appear closer to the boat when actually they are present deep inside the water?  (b) A ray of light enters a diamond from air. If the refractive index of diamond is 2.42, by what percent does the speed of light reduce on entering the diamond?	2
25.	<u>Attempt either option a or b.</u> (a) (i) A current carrying conductor produces a magnetic field around it. Is there a similar magnetic field produced around a thin beam of electrons and neutrons? Justify your answer. (ii) Direction of current in a circuit (a.c.) changes after every $1/100$ second. What is its frequency? <b>OR</b> (b) Electric supply of a house is through a 15 A fuse. When a 2000 W heater is used in this house, how many 100 W bulbs can be used simultaneously? The supply is at 220V, and the heater and the bulbs are rated for 220V.	2

26.	a. Study carefully the food chains given below. The last trophic level in both food chains is occupied by hawks. Which hawk (I or II) will have more energy available to it and why?	2
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**SECTION C**

**Q.no. 27 to 33 are short answer questions.**

27. In a chemistry laboratory, students were instructed to set up three experiments, details of which are given below:

3

Experiment No.	Setup details
1.	2 Iron nails in a cork capped test tube + Tap water Immersing the nails.
2.	2 Iron nails in a cork capped test tube + Boiled water Immersing the nails. + Oil on top of water layer.
3.	2 Iron nails in a cork capped test tube + Cotton wool on top of the Iron nails. + Granules of calcium chloride on cotton wool.

Indicate the changes observed in the nails kept in all the three setups, with reasons & diagram.

28. Attempt either option (a) or (b).

3

(a) Give reasons for the following:

- i. Ionic compounds have higher melting and boiling points.
- ii. Reaction of calcium with water is less violent.
- iii. Prior to reduction the metal sulphides and carbonates must be converted into metal oxides for extracting metals.

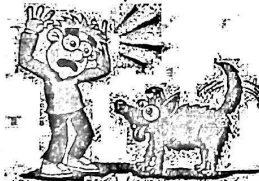
**OR**

(b) Explain the following -

- i. Reactivity of Al decreases if it is dipped in  $\text{HNO}_3$ .
- ii. Carbon cannot reduce the oxides of Na or Mg.
- iii. NaCl is not a conductor of electricity in solid state whereas it does conduct electricity in aqueous solution as well as in molten state.

29. a. Why is chemical communication better than electrical impulses as a means of communication between cells in a multi-cellular organism?  
 b. Karthik is in a scary situation. His body has to prepare for either fighting or running away. State the immediate changes that take place in his body so that he can either fight or run.

3



30. A pure breeding dog with curly fur(A) was crossed to a pure breeding dog with straight fur(B). In the  $F_1$  generation all puppies had curly fur. Next the dogs in  $F_1$  generation were interbred to get  $F_2$  generation.

3



**A**



**B**

- (a) Draw a Punnett square to show the cross between the curly hair dog and straight hair dog till  $F_2$  generation. Use the alphabet C to denote the character curly fur.  
 (b) If in  $F_2$  generation there was 32 puppies give the number of puppies with  
 i. straight hair                      ii. curly hair

31. Read the following information carefully:

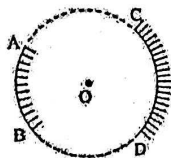
- Resistivity of copper is less than that of aluminium which, in turn, is less than that of constantan.
- Three wires labelled as A, B, and C have been designed as per the following parameters.

WIRE	MATERIAL	LENGTH	DIAMETER	RESISTANCE
A	Aluminium	L	2d	$R_1$
B	Constantan	2L	d/2	$R_2$
C	Copper	L/2	3d	$R_3$

Answer the following questions (with proper calculation):

- Which of the wire has maximum resistance and why?
- Which of the wire has minimum resistance and why?
- Arrange the resistances in ascending order of their values. Justify your answer.

32. > AB and CD, two spherical mirrors, form parts of a hollow spherical ball with its center at O as shown in the diagram below.



If arc AB =  $\frac{1}{2}$  of arc CD, then

- find the ratio of the focal lengths of the spherical mirrors.
- State which of the two mirrors will always form virtual image of an object placed in front of it and why.
- Justify your answer (for questions b) with a proper ray diagram.

33. The following diagram shows two parallel straight conductors carrying same current.



- Copy the diagram and draw the pattern of the magnetic field lines around them showing their directions.
- What is the magnitude of magnetic field at a point 'X' which is equidistant from the conductors? Give justification for your answer.
- How does the magnitude and direction of magnetic field at point 'X' change if the current in the right wire increases suddenly? Give reason for your answer.

SECTION-D

Q.no. 34 to 36 are long answer questions.

34.

Attempt either option a or b.

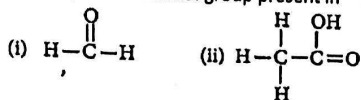
(a) A compound A (molecular formula  $C_3H_6O_2$ ) reacts with sodium metal to form compound B and evolves a gas which burns with a pop sound. The compound A on treatment with alcohol C, found in beer, in presence of concentrated sulphuric acid, forms a sweet-smelling compound D (molecular formula  $C_5H_{10}O_2$ ). On addition of NaOH to A it also gives B and water. D on treatment with NaOH gives back B and C. Identify A, B, C and D and write down the chemical equations of the reactions involved.

OR

(b) A. What is homologous series of carbon compounds?

B. Write the name and formula of the 2nd member of homologous series having general formula  $C_nH_{2n-2}$ .

C. Identify the functional group present in



D. Why are most carbon compounds poor conductors of electricity?

5

35.

Attempt either option a or b.

(a) i. Draw a schematic representation of transport and exchange of oxygen and carbon dioxide during transportation of blood in human beings. Label the following on it:

- the artery that carries oxygenated blood.
- the network connecting artery and veins in body.
- the vein that carries deoxygenated blood to heart.
- the vein that carries oxygenated blood.

ii. Give reason for the following statements:

- White blood corpuscles are the soldiers of the body.
- Plants growing in arid regions have sunken stomata.

OR

(b) i. Which is known as the filtration unit of the kidney? Draw the structure and label the following parts:

- part that collects the filtrate.
- part which maintains the pressure gradient for filtration.
- part which is connected to other such units.
- U shaped structure.

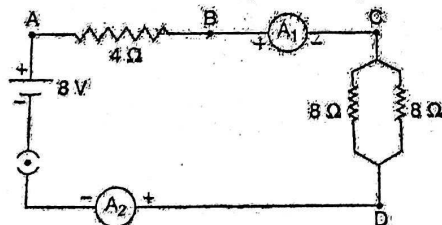
ii. Give two factors which are responsible for the amount of blood that is reabsorbed by the tubule in the filtration units of kidney?

5

36.

Attempt either option a or b.

(a) Find out the following based on the electric circuit given in the figure below.



(i) Effective resistance of two 8 Ohm resistors in the combination.

5

- (ii) Current flowing through the 4 Ohm resistors.
- (iii) Potential difference across the 4 Ohm resistances.
- (iv) Power dissipated in 4 Ohm resistors.
- (v) Difference in ammeter readings, if any.

OR

- (b) (i) 100J of work is done in transferring 20C of charge between two points in a conductor. Find the resistance offered by the conductor, if a current of 2A flows through it.
- (ii) Why are heating devices made of an alloy rather than a pure metal?
- (iii) A wire of resistivity is stretched to double of its length. Find its new resistance and resistivity. Justify your answer with proper calculation if necessary.
- (iv) A wire of resistance  $10\Omega$  is bent in the form of a closed circle. What is the effective resistance between the two points at the ends of any diameter of the circle?

5

SECTION - E

Question No. 37 to 39 are case-based/data-based questions

37.

The strength of acid and base depends on the number of  $H^+$  and the number of  $OH^-$  respectively. If we take hydrochloric acid and acetic acid of the same concentration, say one molar, then these produce different amounts of hydrogen ions. Acids that give rise to more  $H^+$  ions are said to be strong acids, and acids that give less  $H^+$  ions are said to be weak acids.

Given is the pH scale of different solutions. Study it carefully & answer the following questions.

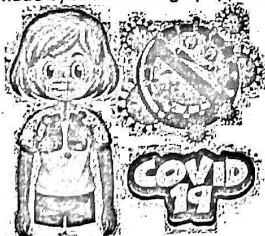


- (a) Fresh milk has a pH of 6. But milk of magnesia has  $pH=10$ . Why?
  - (b) What should one intake to reduce the inflammation of acidity due to excess secretion of gastric juice? Suggest from the chart given above.
- Attempt either c. or d.
- (c) Why is excessive black coffee not good for health?
  - (d) What should be the optimum pH level of intimate wash? Explain using the chart given above.

4

38.

A biology teacher was explaining about respiratory diseases, one that especially reaches the respiratory tract that includes lungs to her students of class 10. She mentioned Covid as an example and reminded the students the huge impact it had on globalization. She compared the respiratory tract as an upside-down tree. Rima mentioned that her uncle who was a chain smoker expired due to covid after having breathing troubles. She asked the children to draw a poster on the effect of covid 19 on respiratory system. The poster made by Rima was highly appreciated.



- (a) Explain the comparison between upside down tree and respiratory tract.

4

(b) What is the function of alveoli?

Attempt either c. or d.

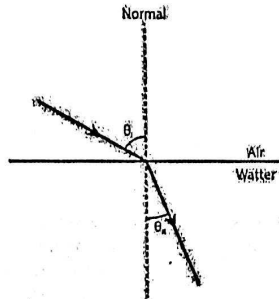
(c) Mention the role of cilia present in the upper parts of the respiratory tracts.

(d) Diffusion alone cannot meet the requirements of human beings. Justify the statement.

39.

Read the passage carefully and answer the following questions:

The ability of a medium to refract light is expressed in terms of its optical density. Optical density has a definite connotation. It is not the same as mass density. On comparing two media, the one with the large refractive index is optically denser medium than the other. The other medium with a lower refractive index is optically rarer. Also, the speed of light through a given medium is inversely proportional to its optical density.



(a) Determine the speed of light in diamond if the refractive index of diamond with respect to vacuum is 2.42. Speed of light in vacuum is  $3 \times 10^8$  m/s.

(b) Refractive indices of glass, water and carbon di sulphide are 1.5, 1.33 and 1.62 respectively. If a ray of light is incident in these media at the same angle (say), then write the increasing order of the angle of refraction in these media.

Attempt either subpart (c) or (d).

(c) The speed of light in glass is  $2 \times 10^8$  m/s and in water is  $2.25 \times 10^8$  m/s.

(i) Which one of the two is optically denser and why?

(ii) A ray of light is incident normally at the water- glass interface when it enters a thick glass container filled with water. What will happen to the path of the ray after entering the glass? Give reason.

OR

(d) The absolute refractive indices of water and glass are  $4/3$  and  $3/2$  respectively. If the speed of light in glass is  $2 \times 10^8$  m/s, find the speed of light in (i) vacuum and (ii) water.

4



# Delhi Public School, Howrah

PER-BOARD 2 (2024-2025)

Class-X

Care must be taken not to write anything on the question paper. All the questions must be attempted in the correct sequence.

Time: -3 Hours

SUBJECT: SOCIAL SCIENCE (CODE- 087)

F.M.80

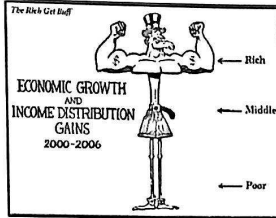
### General Instructions:

1. The question paper comprises Six Sections – A, B, C, D, E and F. There are 37 questions in the Question paper. All questions are compulsory.
2. Section A – From questions 1 to 20 are MCQs of 1 mark each.
3. Section B – Question no. 21 to 24 are Very Short Answer Type Questions, carrying 2 marks each. Answer to each question should not exceed 40 words.
4. Section C contains Q.25to Q.29 are Short Answer Type Questions, carrying 3 marks each. Answer to each question should not exceed 60 words
5. Section D – Question no. 30 to 33 are long answer type questions, carrying 5 marks each. Answer to each question should not exceed 120 words.
6. Section-E - Questions no from 34 to 36 are case based questions with three sub questions and are of 4 marks each. Answer to each question should not exceed 100 words.
7. Section F – Question no. 37 is picture based / map based, carrying 5 marks with two parts, 37a from History (2 marks) and 37b from Geography (3 marks).
8. 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 have to be attempted.
9. In addition to this, separate instructions are given with each section and question, wherever necessary.
10. Note: CBQ stands for "Competency Based Question". 50% weightage allocated for competency-based questions.

SECTION A		
MCQs (1x20=20)		
1	By the seventeenth century, as urban culture bloomed in China, the uses of print diversified. As a citizen of China Lin, has been watching these changes and noting them down to write a book someday. Which of the following would he have written in his records? (a) Reading was becoming a monotonous activity. (b) People started reading less books and more pamphlets. (c) Merchants began using print everyday as they collected trade information. (d) Women of all classes were starting to read more books.	1
2	The type of farming which is practiced in areas of high population pressure on land, where high doses of bio-chemical inputs and irrigation are used for obtaining higher production is known as- (a) Jhumming (b) Primitive subsistence (c) Intensive subsistence (d) Commercial farming	1
3	What led to tensions between the Dutch-speaking communities and French-speaking communities in Belgium during the 1950s and 1960s? (a) Both the communities demanded special powers. (b) The minority French-speaking community was richer and more powerful than the majority Dutch-speaking community.	1

	(c) The majority Dutch-speaking community was richer and more powerful than the minority French-speaking community. (d) Both the communities were equal in socio-economic ladder and this was resented by the French-speaking community.											
4	There are two statements Assertion(A) and Reason(R). Answer these questions selecting the correct option given below. Assertion(A): Minerals are non-renewable resource. Reason (R): The rate of formation is faster than the rate of consumption by humans of these minerals. (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										
5	Choose the correct pair. i. Union List – Police. ii. State List – Banking. iii. Concurrent List – Education. Option: (a) Only i. (b) ii and iii. (c) Only iii. (d) i, ii and iii.	1										
6	Choose the correct pair. i. Spinning – Yarn. ii. Mayurbhanj – Bauxite. iii. Copper – Metallic resource. Option: (a) Only option i. (b) Option i and iii. (c) Only option iii. (d) Option ii and iii.	1										
7	There are two statements Assertion (A) and Reason(R). Answer these questions selecting the correct option given below. Assertion(A): Earlier, only women were allowed to participate in public affairs, vote and contest for public offices. Reason (R): The percentage of elected women members in Lok Sabha has crossed 14.36% per cent of its total strength for the first time in 2019. (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										
8	Match List I with List II and select the correct answer using the codes given below the lists: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">List - I</th> <th style="width: 50%;">List - II</th> </tr> </thead> <tbody> <tr> <td>1. Congress Party</td> <td>A. National Democratic Alliance</td> </tr> <tr> <td>2. Bharatiya Janata Party</td> <td>B. State Party</td> </tr> <tr> <td>3. Communist Party of India (Marxist)</td> <td>C. United Progressive Alliance</td> </tr> <tr> <td>4. Telugu Desam Party</td> <td>D. Left Front</td> </tr> </tbody> </table> Options: (a) 1-A, 2-B, 3-C, 4-D. (b) 1-B, 2-C, 3-D, 4-A. (c) 1-C, 2-A, 3-D, 4-B. (d) 1-D, 2-C, 3-B, 4-A.	List - I	List - II	1. Congress Party	A. National Democratic Alliance	2. Bharatiya Janata Party	B. State Party	3. Communist Party of India (Marxist)	C. United Progressive Alliance	4. Telugu Desam Party	D. Left Front	1
List - I	List - II											
1. Congress Party	A. National Democratic Alliance											
2. Bharatiya Janata Party	B. State Party											
3. Communist Party of India (Marxist)	C. United Progressive Alliance											
4. Telugu Desam Party	D. Left Front											

9



1

Which one of the following options best signifies this cartoon?

- If you see all democracies and all dictatorship for a decade, you will find dictatorship have slightly higher economic development.
- Economic development depends on several factors like country's population, size, situation and cooperation from other countries.
- If democracies are expected to produce good governments, then it is not fair to expect that they would also produce development.
- There are disparities between rich and poor, whereas economic growth should be evenly distributed.

10

Arrange the following in a sequential order keeping the occurrence of the events in mind.

- Organisation of a Satyagraha to support the peasants of the Kheda.
- Mahatma Gandhi returned to India.
- Organisation of a Satyagraha movement amongst cotton mill workers in Ahmedabad.
- Organisation of Champaran satyagraha.

- (IV), (III), (I), (II)
- (II), (IV), (I), (III)
- (I), (IV), (II), (III)
- (I), (III), (IV), (II)

1

11

Given are three reactions to the language policy followed in India. Which of the following holds true in the case of India?

- The policy of accommodation has strengthened national unity.
- Language based states have divided us by making everyone conscious of their language.
- The language policy has only helped to consolidate the dominance of English over other languages.
- The language policy has encouraged monolingualism, prioritizing the majority language while acknowledging its widespread use across the country.

1

12

There are two statements Assertion(A) and Reason(R). Answer these questions selecting the correct option given below.

Assertion(A): Power can be shared among governments at different levels - a general government for the entire country and governments at the provincial or regional level.

Reason (R): Such a general government for the entire country is usually called federal government.

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

1


13

Read the given source:

The members of this class were united by a common way of life that cut across regional divisions. They owned estates in the countryside and also town-houses. They spoke French for purposes of diplomacy and in high society. Their families were often connected by ties of marriage. Identify the class mentioned in the source given above:

- Aristocratic class
- Peasant class
- Merchants
- Capitalist class

1

14	<p>Which of the following statements about caste-based discrimination is true?</p> <p>(a) It has been completely eradicated in urban areas of India.          (b) It is practiced openly without any resistance.          (c) It has reduced due to reservations and affirmative action policies but persists in social practices.          (d) It is no longer a concern for modern Indian society.</p>	1
15	 <p>What does the given picture represent ?</p> <p>(a) The fear of print which has been dramatized          (b) The need for economic nationalism          (c) The influence of revolutionaries on Europe.          (d) The practice of censorship.</p>	1
16	<p>Which one of the following is not true regarding the World Trade Organisation?</p> <p>(a) It allows free trade to all countries without any trade barriers.          (b) Its aim is to liberalise international trade.          (c) It establishes rules regarding international trade.          (d) WTO rules have forced the developing countries to remove trade barriers.</p>	1
17	<p>Which country can be considered as a developed country in the modern world? Select your answer from the following statements.</p> <p>(a) Countries which have accumulated huge amount of wealth and always secures the future of their citizens. These countries are considered to be developed.          (b) Countries which are among the highest in the 'Human Development Index' are considered to be the developed countries.          (c) Only rich countries are considered to be developed because people have money to buy everything needed for human beings—both material and non-material.          (d) Iran is a rich country and therefore it is a developed country.</p>	1
18	<p>Rishav is employed as a government teacher. Which of the following statement is right about him?</p> <p>(a) He works in secondary sector.          (b) He works in private sector.          (c) He works in unorganized sector.          (d) He works in public sector.</p>	1
19	<p>Kerala has low infant mortality rate because it has _____.</p> <p>(a) Low provision of basic health and educational facilities.          (b) Adequate provision of basic health and educational facilities.          (c) High mortality rate among elderly people.          (d) Both (a) and (c).</p>	1
20	<p>Evaluate the impacts of opening foreign trade on the global economy by identifying the appropriate statements among the following options:</p> <p>i. The choice of goods in the markets increase.          ii. Producers from two countries closely compete against each other despite the distance between their locations.          iii. Foreign trade thus results in connecting the markets or integration of markets in different countries.          iv. The quality of the product is always good.</p> <p><b>Options:</b>          (a) Statements i and ii are appropriate.          (b) Statements i, ii and iii are appropriate.</p>	1

- (c) All the statements are inappropriate.  
 (d) Only statement iv is appropriate.

**SECTION -B**

**VERYSHORT ANSWER QUESTION (2x4=8)**

- 21** 'Women became important as readers as well as writers.' In the context of the given statement justify the influence that print had on European women. **2**
- OR
- 'As vernacular newspapers became assertively nationalist, the colonial government began debating measures of stringent control.' In this context explain the measures taken by British to control freedom of press in India.
- 22** A dispute arose between the state of Maharashtra and the central government regarding the allocation of funds for disaster relief after severe floods. The state government argued that it required more financial assistance due to the extent of damage, while the central government maintained that the allocated funds were sufficient and in line with national policies.  
 A) How does federalism in India address disputes between the central and state governments?  
 B) Suggest a way to strengthen cooperation between the central and state governments in such situations. **2**
- 23** India has enormous diversity in the availability of resources." Justify this statement with appropriate example. **2**

- 24**  **2**
- A) What does the cartoon represent?  
 B) Which concept is shown here?

**SECTION C**

**SHORT ANSWER-BASED QUESTIONS (3 x5=15)**

- 25** Sriracha is a student of class 10 and is attempting is researching on the history of Indian National movement. She comes across the limitations and of the non-cooperation movement. What information would she find on the economic and political limitations of the movement? **3**
- 26** Why didn't shift out of primary sector happen in case of employment although there has been a change in the share of the three sectors in GDP? **3**
- 27** Agriculture and industry are not exclusive of each other. They move hand in hand. For instance, the agro-industries in India have given a major boost to agriculture by raising its productivity. "Agriculture and industry are complimentary to each other." Support the statement with three examples. **3**
- 28** A. Evaluate the significant role of Political parties in India.  
 OR  
 B. Assess three challenges faced by political parties in India. **3**
- 29** How can workers in the unorganised sector be protected? Explain giving examples of rural and urban areas. **3**

**SECTION D**

**LONG ANSWER-BASED QUESTIONS(5x4=20)**

30	A. "Nuclear energy is expected to play an increasingly important role in India"-Give arguments to support the statement.  OR B. "Minerals are an indispensable part of our lives". Support this statement with a suitable example. Why is it necessary to conserve mineral resources?	5
31	A. Following the defeat of Napoleon in 1815, European governments were driven by a spirit of conservatism. How would you evaluate this statement? Substantiate with suitable examples.  OR B. 'The first clear expression of nationalism came with the French Revolution in 1789.' In the light of the given statement justify how French Revolution gave birth to the idea of a nation.	5
32	A. "A public expression of dissatisfaction with democracy shows the success of democratic project." Justify the statement.  OR B. "Democratic government is attentive to the needs and demands of the people and is largely free of corruption." Elucidate.	5
33	A. "Deposits with the banks are beneficial to the depositors as well as to the nation". Examine the statement.  OR B. "The rich households are availing cheap credit from formal lenders whereas the poor households have to pay a heavy price for borrowing." Comment.	5
SECTION E		
CASE-BASED QUESTIONS(4 x3=12)		
34	Read the passage given below and answer the questions that follow: All through history, human societies have become steadily more interlinked. From ancient times, travellers, traders, priests and pilgrims travelled vast distances for knowledge, opportunity and spiritual fulfilment, or to escape persecution. They carried goods, money, values, skills, ideas, inventions, and even germs and diseases. i. Give two examples of long distance trade in the ancient world. ii. How did food take different forms due to commercial exchanges in pre modern world?	4
35	Read the passage given below and answer the questions that follow: Multi-purpose projects, launched after Independence with their integrated water resources management approach, were thought of as the vehicle that would lead the nation to development and progress, overcoming the handicap of its colonial past. Jawaharlal Nehru proudly proclaimed the dams as the 'temples of modern India'; the reason being that it would integrate development of agriculture and the village economy with rapid industrialisation and growth of the urban economy. i. Why protest movements against building of Dams have been organized? ii. In which state of India is Tehri Dam Andolan being organized? iii. Which are the classes that get benefitted from the Multipurpose river valley projects?	4
36	Read the source given below and answer the questions that follow:  The value of final goods and services produced in each sector during a particular year provides the total production of the sector for that year. And the sum of production in the three sectors gives what is called the Gross Domestic Product (GDP) of a country. It is the value of all final goods and services produced within a country during a particular year. GDP shows how big the economy is. In India, the mammoth task of measuring GDP is undertaken by a central government ministry. This Ministry, with the help of various government departments of all the Indian states and union territories, collects information relating to total volume of goods and services and their prices and then estimates the GDP. When we produce a good by exploiting natural resources, it is an activity of the primary sector. The secondary sector in which natural products are changed into other forms through ways of manufacturing that we associate with industrial activity. After primary and secondary, there is a third category of activities that falls under the tertiary sector and is different	4

from the above two. These are activities that help in the development of the primary and secondary sectors. These activities, by themselves, do not produce a good but they are an aid or a support for the production process.

- i. Which sector has emerged as the largest producing sector in India?
- ii. With which sector Life insurance is associated?
- iii. Elucidate the concept of GDP.

**SECTION F**

**PICTURE BASED/MAPSKILL-BASED QUESTION (2+3=5)**

<b>37a</b>	Two places A and B have been marked on the given outline map of India. Identify them and write their correct names. A) Place where Mahatma Gandhi organized Satyagraha for Indigo planters. B) Place where 1920 session of the Congress was held	<b>2</b>
<b>b</b>	On the given map of India, name and label the following: (ANY-3) A) Dam built on the Kaveri river. B) Iron ore mine in Karnataka. C) Sea port marked as 'C'. D) Soil found in the western Ghats.	<b>3</b>

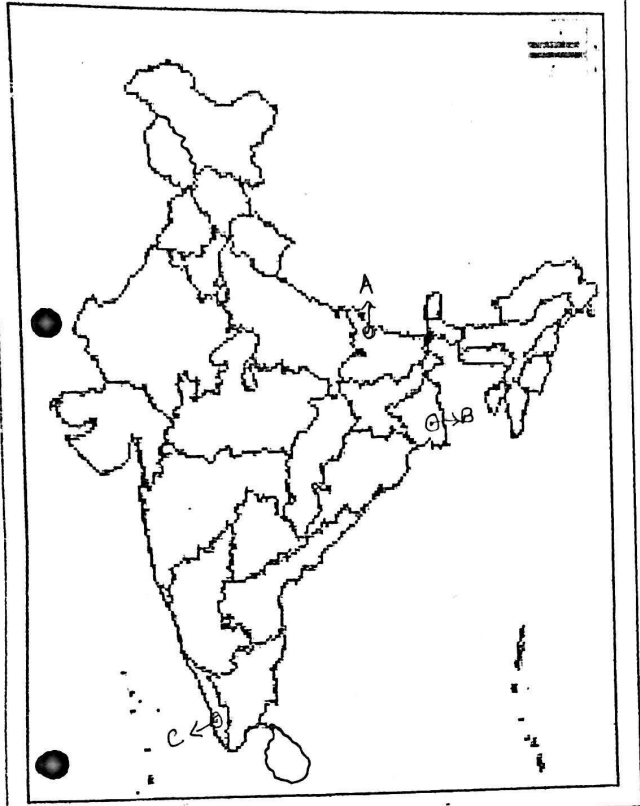
a, b) X.



DELHI PUBLIC SCHOOL, HOWRAH

NAME : ..... CLASS : ..... SEC : .....

ROLL NO : ..... DATE : .....





## Delhi Public School, Howrah

PRE BOARD II (2024-2025)

CLASS - X

Care must be taken not to write anything on the question paper. All the questions must be attempted in the correct sequence.

विषय : हिंदी - अ (002)

अवधि:- 3 घंटे

कुल अंक- 80

सामान्य निर्देश :-

- I. इस प्रश्नपत्र के चार खंड हैं - क, ख, ग और घ ।
- II. चारों खंडों के प्रश्नों के उत्तर देना अनिवार्य है।
- III. लेखन कार्य में स्वच्छता का विशेष ध्यान रखिए ।

### (खंड-क, अपठित गद्यांश)

1. निम्नलिखित गद्यांश पर आधारित प्रश्नों के उत्तर लिखिए-

7

आत्मविश्वास मनुष्य की सबसे बड़ी पूँजी है। यह हमारे सभी आन्तरिक गुणों का शिरोमणि है, जिसके अभाव में हम लक्ष्य सिद्धि के प्रयत्नों से दूर हो जाते हैं। विद्यार्थी जीवन से ही हमें इस गुण का विकास स्वयं अपने अन्दर विकसित करना चाहिए, ताकि आने वाला भविष्य हमारे तात्कालिक लक्ष्यों से ओत-प्रोत और परिपूर्ण हो। आत्मविश्वास वस्तुतः अपनी शक्तियों की सच्ची पहचान का नाम है, अर्थात् अपनी कार्यक्षमता, कार्यकुशलता और योग्यता का ज्ञान और परख से रूबरू होना और उस दिशा में अपने आपको झोंक देना तथा अपनी शक्तियों को कार्यरूप में परिणत करने की वास्तविकता ही आत्मज्ञान और आत्मविश्वास है। हमें जिस पदार्थ की कामना है, लिप्सा है उसको सिद्धि के लिए हमें आत्मविश्वासी बनकर फल की प्राप्ति की साधना करनी होगी। दृढ़ निश्चय कीजिए, अटूट, अक्षय संकल्प कीजिए और अपने मार्ग की रुकावटों को प्रबल आत्मविश्वास से पराजित कीजिए। जिस प्रकार का व्यक्ति का आत्मविश्वास होगा, वैसी ही उसकी योग्यता होगी और उसी अनुपात में उसे फल की प्राप्ति होगी। यदि हमारी इच्छा अदम्य है तो प्रयत्न भी अदम्य होना चाहिए और उसका मूलाधार आत्मविश्वास ही है। जिसमें आत्मविश्वास प्रबल होगा, दृढ़ इच्छा शक्ति होगी, वह व्यक्ति विपुल ज्ञान, अदम्य साहस और धन सम्पत्ति का स्वामी होगा, हर मनोनुकूल क्षेत्र में विजेता होगा। आत्मविश्वास एक भावना है, एक अद्भुत गुण है, एक सर्वश्रेष्ठ आन्तरिक शक्ति है, एक आन्तरिक भावातिरेक है, जहाँ और जिस व्यक्ति के अन्दर इन गुणों को कार्यरूप में परिणत करने का साहस है, उत्साह है और शक्ति है, उसे सफलता और कार्यसिद्धि स्वतः ही प्राप्त हो जाती है। आत्मविश्वास

ही साहस और उत्साह का जनक है, जीवन में कठोर परीक्षाएँ सम्मुख आएँ या कठिनाइयाँ बाधा डालें, आत्मविश्वासी को कोई भी परिस्थिति हतोत्साहित नहीं कर सकती।

सोपान I. बहुविकल्पीय प्रश्न-

(3X1=3)

(I) आत्मविश्वासी मनुष्य के गुण हो सकते हैं-इस कथन के लिए उचित विकल्प/विकल्पों का चयन कीजिए।

1. उसका भविष्य उज्ज्वल हो जाता है      2. उसमें कार्य करने के प्रति उत्साह आ जाता है  
3. वह दृढ़ इच्छाशक्ति का मालिक होगा      4. वह कार्यसिद्धि में ध्यान नहीं देगा

विकल्प:

- (क) 1 और 2 सही हैं      (ख) 1,2 और 3 सही हैं  
(ग) 2, 3 और 4 सही हैं      (घ) 1,3 और 4 सही हैं

(II) नीचे दिए हुए कॉलम-1 को कॉलम-2 से सुमेलित कीजिए और सही विकल्प का चयन कीजिए-

कॉलम-1	कॉलम-2
I. दृढ़ निश्चयी व्यक्ति	1. आत्मविश्वास
II. अदम्य इच्छा	2. अटूट संकल्प
III. उत्साह का जनक	3. अदम्य प्रयत्न

विकल्प :

- (क) I (1), II (2), III (3)      (ख) I (2), II (1), III (3)  
(ग) I (3), II (2), III (1)      (घ) I (2), II (3), III (1)

(III) कथन (A) और कारण (R) को पढ़कर उपयुक्त विकल्प चुनिए-

कथन (A) : आत्मविश्वासी मनुष्य के कार्य स्वयं सिद्ध हो जाते हैं।

कारण (R) : किसी भी परिस्थिति में आत्मविश्वासी मनुष्य हतोत्साहित नहीं होता।

(क) कथन (A) गलत है, किन्तु कारण (R) सही है।

(ख) कथन (A) और कारण (R) दोनों ही गलत हैं।

(ग) कथन (A) सही है और कारण (R), कथन (A) की सही व्याख्या है।

(घ) कथन (A) सही है, किन्तु कारण (R), कथन (A) की सही व्याख्या नहीं है।

सोपान II. अति लघु प्रश्न-

(2X2=4)

(IV) आत्मविश्वास का गूढ़ अर्थ स्पष्ट कीजिए।

(V) किस प्रकार का व्यक्ति मन की इच्छास्वरूप विजेता बनता है?

अपठित काव्यांश

2. निम्नलिखित काव्यांश पर आधारित प्रश्नों के उत्तर लिखिए-

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मैंने धरती के गीत सुने, अम्बर की बातें क्या जानू ?

धरती ने पहले बोल सुने, धरती पर पहला स्वर फूटा,

धरती ने जीवन दान दिया, धरती पर जीवन सुख लूटा।  
धरती माता के अंचल में, ममतामय स्नेह-दुलार मिला,  
धरती ने आँसु झेले हैं, धरती पर पहला प्यार खिला।  
धरती ने स्वर्ण बिखेरा है, नभ की सौगातें क्या जानू ?

फूलों ने हँस मोहकता दी, कलियों ने मृदु मुस्कानें दीं,  
मंजरियों ने मादकता दी कोकिल ने मधुमय तानें दीं।  
बल्लरियों ने गलबर्हि दे, प्राणों को नव संगीत दिया,  
काँटों ने कठिन परीक्षा ले, जीवन का प्रेरक गीत दिया।  
सोने के दिन कब देख सका, चाँदी की रातें क्या जानू ?

सूरज धरती की छाती पर, सम्पूर्ण तेज अजमाता है,  
नभ अपने वज्र प्रहारों से, धरती के प्राण कँपाता है।  
ज्वालामुखियों, भूकम्पों ने, धरती पर प्रलय मचाया है।  
मानव ने मानव के वध से, धरती पर खून बहाया है,  
लपटों-शोलों से खेला हूँ, शीतल बरसातें क्या जानू ?

सोपान I. बहुविकल्पीय प्रश्न-

(3X1=3)

(I) फूलों और कलियों ने धरती को क्या-क्या सौगातें दीं ?

(क) फूल और पतियाँ

(ख) नवजीवन

(ग) मादकता और मृदु मुस्कान

(घ) गलबर्हि

(II) कथन (A) और कारण (R) को पढ़कर उचित विकल्प का चयन कीजिए-

कथन (A) : प्रलय आने पर धरती काँप उठती है।

कारण (R) : मनुष्य को काँटों से बाहर निकलना चाहिए।

(क) कथन (A) गलत है किन्तु कारण (R) सही है।

(ख) कथन (A) और कारण (R) दोनों ही गलत हैं।

(ग) कथन (A) सही है और कारण (R), कथन (A) की सही व्याख्या है।

(घ) कथन (A) सही है किन्तु कारण (R), कथन (A) की सही व्याख्या नहीं है।

(III) काव्यांश के अनुसार कवि को धरती से क्या मिला है ?

1. जीवन दान

2. स्नेह-दुलार

3. निराशा

4. जीवन सुख

विकल्प:

(क) कथन 1, 2 व 4 सही हैं

(ख) कथन 1, 2 व 3 सही हैं

(ग) कथन 2 सही है

(घ) कथन 1, 2, 3 व 4 सही हैं

(IV) 'लपटों-शोलों से खेला हूँ, शीतल बरसातें क्या जानूँ पंक्ति का आशय स्पष्ट कीजिए।

(V) कवि नभ की सौगातें क्यों नहीं जान पाया ?

(खंड-ख, व्याकरण)

3. निर्देशानुसार 'रचना के आधार पर वाक्य भेद' पर आधारित पाँच प्रश्नों में से किन्हीं चार प्रश्नों के उत्तर दीजिए- (4X1=4)

- I. विद्यालय समय पर पहुँचने के लिए जल्दी उठो। (मिश्र वाक्य में बदलिए)
- II. मोहन पिताजी के पैरों में गिरा और क्षमा माँगने लगा। (सरल वाक्य में बदलिए)
- III. जैसे देखते ही गरीब की आँखों में चमक आ गई। (संयुक्त वाक्य में बदलिए)
- IV. घंटी बजते ही छात्र कक्षा में चले गए। (संयुक्त वाक्य में बदलिए)
- V. उस लड़की को बुलाओ जिसने पीली फ्रॉक पहनी है। (रेखांकित उपवाक्य का भेद लिखिए।)

4. निर्देशानुसार 'वाच्य' पर आधारित पाँच प्रश्नों में से किन्हीं चार प्रश्नों के उत्तर दीजिए- (4X1=4)

- I. दादीजी पढ़ नहीं सकती। (भाववाच्य में बदलिए)
- II. भारतीय टीम खूब अच्छा खेले। (भाववाच्य में बदलिए)
- III. गरीबों का दर्द मुझसे नहीं देखा जाता। (कर्तृवाच्य में बदलिए)
- IV. उस आदमी से कठिनाई से चला गया। (कर्मवाच्य में बदलिए)
- V. मोटापा घटाने के लिए रोजाना तेज़ टहलें। (वाक्य में वाच्य लिखिए)

5. निर्देशानुसार 'पद परिचय' पर आधारित पाँच प्रश्नों में से किन्हीं चार प्रश्नों के रेखांकित भाग का पद परिचय दीजिए- (4X1=4)

- I. विराट क्रिकेट खेल रहा था।
- II. वह दरवाजे से बाहर आया।
- III. अभी-अभी मैंने दूरभाष पर बात की।
- IV. चारों ओर छाई हरियाली मनमोहक लग रही थी।
- V. ये तीन मूर्तियाँ बहुत कीमती हैं।

6. निर्देशानुसार 'अलंकार' पर आधारित पाँच प्रश्नों में से किन्हीं चार प्रश्नों के रेखांकित काव्य पंक्तियों में अलंकार को पहचान कर उत्तर दीजिए- (4X1=4)

- I. मोर-मुकुट की चंद्रिकनु, यों राजत नंदनंद।  
मनु ससि सेखर की अकस, किय सेखर सत चंद ॥
- II. मैं तो मात्र मृत्तिका हूँ कुंभ और कलश बनकर,  
जल लाती तुम्हारी अंतरंग प्रिया हो जाती हूँ।
- III. बालों को खोलकर मत चला करो,  
दिन में रास्ता भूल जाएगा सूरज !

IV. सागर-सा गंभीर हृदय हो,  
.गिरि सा ऊँचा हो जिसका मन।

V. शशि-मुख पर घँघट डाले अंचल में दीप छिपाये।

(खंड-ग, पाठ्यपुस्तक)

7. निम्नलिखित पठित गद्यांश पर आधारित बहुविकल्पीय प्रश्नों के सर्वाधिक उपयुक्त विकल्प चुनकर लिखिए- (5X1=5)

ऊपर की तसवीर से यह नहीं माना जाए कि बालगोबिन भगत साधु थे। नहीं, बिलकुल गृहस्थ। उनकी गृहिणी की तो मुझे याद नहीं, उनके बेटे और पतोहू को तो मैंने देखा था। थोड़ी खेतीबारी भी थी, एक अच्छा साफ़-सुथरा मकान भी था। किंतु, खेतीबारी करते, परिवार रखते भी, बालगोबिन भगत साधु थे साधु की सब परिभाषाओं में खरे उतरने वाले। कबीर को 'साहब' मानते थे, उन्हीं के गीतों को गाते, उन्हीं के आदेशों पर चलते। कभी झूठ नहीं बोलते, खरा व्यवहार रखते। किसी से भी दो-टूक बात करने में संकोच नहीं करते, न किसी से खामखाह झगड़ा मोल लेते। किसी की चीज़ नहीं छूते, न बिना पूछे व्यवहार में लाते। इस नियम को कभी-कभी इतनी बारीकी तक ले जाते कि लोगों को कुतूहल होता! कभी वह दूसरे के खेत में शौच के लिए भी नहीं बैठते! वह गृहस्थ थे; लेकिन उनकी सब चीज़ 'साहब' की थी। जो कुछ खेत में पैदा होता, सिर पर लादकर पहले उसे साहब के दरबार में ले जाते जो उनके घर से चार कोस दूर था - एक कबीरपंथी मठ से मतलब। वह दरबार में 'भेंट' रूप रख लिया जाकर 'प्रसाद' रूप में जो उन्हें मिलता, उसे घर लाते और उसी से गुज़र चलाते !

I. लेखक बालगोबिन भगत के परिवार के सदस्यों में से किससे परिचित नहीं थे ?

(क) बेटे से

(ख) पुत्रवधू से

(ग) पत्नी से

(घ) किसी से नहीं

II. बालगोबिन भगत के कौन-से कार्य लोगों के लिए अचरज का कारण बने?

सही विकल्प का चयन कीजिए :

1. खामखाह झगड़ा मोल लेना
2. किसी की चीज़ को बिना पूछे इस्तेमाल करना
3. स्पष्टवादी होना और नियमों का बारीकी से पालन करना
4. किसी के खेत में शौच के लिए जाना

विकल्प :

(क) केवल 3

(ख) 3 और 4

(ग) 1 और 2

(घ) 2 और 4

iii. बालगोबिन भगत किनके आदेशों का अनुपालन करते थे ?

(क) लेखक के

(ख) दरबार के

(ग) दोनों के

(घ) कबीर के

iv. बालगोबिन भगत को साधु कहा गया है :

- (क) कबीर को साहब मानने के कारण
- (ख) गृहस्थ होते हुए निर्लिप्त जीवन व्यतीत करने के कारण
- (ग) अपनी फ़सल मठ में अर्पित करने के कारण
- (घ) कबीर के गीत गाने के कारण

v. कथन और कारण को पढ़कर उपयुक्त विकल्प चुनिए :

कथन : बालगोबिन भगत कबीर के गीत गाते और उनके आदेशों का अनुपालन करते थे।

कारण : बालगोबिन भगत कबीर को 'साहब' मानते थे।

विकल्प :

- (क) कथन सही है, लेकिन कारण, कथन की सही पुष्टि नहीं करता।
- (ख) कथन गलत है, लेकिन कारण सही है।
- (ग) कथन सही है और कारण, कथन की सही पुष्टि करता है।
- (घ) कथन और कारण दोनों गलत हैं।

8. निम्नलिखित पठित पद्यांश पर आधारित बहुविकल्पीय प्रश्नों के सर्वाधिक उपयुक्त विकल्प चुनकर लिखिए-

(5X1=5)

मधुप गुन-गुनाकर कह जाता कौन कहानी यह अपनी,  
मुरझाकर गिर रही पतियाँ देखो कितनी आज घनी।

इस गंभीर अनंत-नीलिमा में असंख्य जीवन-इतिहास,  
यह लो, करते ही रहते हैं अपना व्यंग्य-मलिन उपहास  
तब भी कहते हो - कह डालूँ दुर्बलता अपनी बीती।

तुम सुनकर सुख पाओगे, देखोगे - यह गागर रीती।  
किंतु कहीं ऐसा न हो कि तुम ही खाली करने वाले -  
अपने को समझो, मेरा रस ले अपनी भरने वाले।

यह विडंबना ! अरी सरलते तेरी हँसी उड़ाऊँ मैं।  
भूलें अपनी या प्रवचना औरों की दिखलाऊँ मैं।

उज्ज्वल गाथा कैसे गाऊँ, मधुर चाँदनी रातों की।  
अरे खिल-खिला कर हँसते होने वाली उन बातों की।

1. 'पतियों का मुरझाकर गिरना' किसका प्रतीक है?

- (क) जीवन की नश्वरता का
- (ग) जीवन की बाधाओं का

- (ख) उपहास और परिहास का
- (घ) जीवन की अनंतता का

II. 'तुम सुनकर सुख पाओगे' काव्य-पंक्ति में 'तुम' किसके लिए प्रयोग हुआ है ?

(क) कवि के लिए

(ख) मित्रों के लिए

(ग) प्रेयसी के लिए

(घ) किसी के लिए नहीं

III. 'रीति गागर' से क्या अभिप्राय है?

(क) धन-संपत्ति का अभाव होना

(ख) जीवन में कोई भाव न होना

(ग) जीवन में कोई अपना न होना

(घ) विशिष्ट उपलब्धि का न होना

V. कवि अपने जीवन की उज्ज्वल गाथा किसी के साथ क्यों नहीं बाँटना चाहता ?

(क) उपहास का पात्र नहीं बनना चाहता।

(ख) कवि अत्यंत संकोची स्वभाव का है।

(ग) वह कवि की निजी संपत्ति है।

(घ) कवि भावुक प्रवृत्ति का है।

V. कथन और कारण को पढ़कर उपयुक्त विकल्प चुनिए :

कथन : कवि अपने जीवन की कमज़ोरी समाज के सामने नहीं लाना चाहते।

कारण : लोगों के बीच कटाक्षपूर्ण मज़ाक बनने का भय है।

विकल्प :

(क) कथन सही है, लेकिन कारण ग़लत है।

(ख) कथन और कारण दोनों सही हैं तथा कारण, कथन की सही व्याख्या करता है।

(ग) कथन ग़लत है, लेकिन कारण सही है।

(घ) कथन और कारण दोनों ग़लत हैं।

9. गद्य पाठों के आधार पर निम्नलिखित चार प्रश्नों में से किन्हीं तीन प्रश्नों के उत्तर लगभग 25-30 शब्दों में लिखिए- 3X2=6

(क) नेताजी का चश्मा पाठ में पान वाले के मुख से 'कैप्टन' नाम सुनकर हालदार साहब के मन मस्तिष्क में चश्मे वाले के बारे में क्या धारणा बनी थी? वह बाद में कैसे बदल गई ?

(ख) 'लखनवी अंदाज़' पाठ में लेखक ने नवाब साहब की असुविधा और संकोच के कारण का अनुमान कैसे लगाया ?

(ग) 'सभ्यता-संस्कृति' और 'असभ्यता असंस्कृति' के बीच का अंतर 'संस्कृति' पाठ के आधार पर स्पष्ट कीजिए।

(घ) किस मुस्लिम पर्व का नाम बिस्मिल्ला खाँ और शहनाई के साथ जुड़ा है? उस पर्व का परिचय दीजिए।

10. पद्य पाठों के आधार पर निम्नलिखित चार प्रश्नों में से किन्हीं तीन प्रश्नों के उत्तर लगभग 25-30 शब्दों में लिखिए- 3X2=6

(क) परशुराम जी ने लक्ष्मण के सामने अपनी किन-किन विशेषताओं का बखान किया ?

(ख) आसमान में उड़ने के लिए कवि को पंख कब और क्यों लग जाते हैं? 'अट नहीं रही है' कविता के आधार पर उत्तर दीजिए।

(ग) मिट्टी की गुणवत्ता (उपजाऊ शक्ति) को हम कैसे कायम रख सकते हैं? 'फ़सल' कविता के संदर्भ में लिखिए।

(घ) मुसकान से मानव मन और वातावरण में क्या परिवर्तन देखने को मिलता है? 'यह दंतुरित मुसकान' कविता के आधार पर उत्तर दीजिए।

11. पूरक पाठ्य-पुस्तक के पाठों पर आधारित निम्नलिखित तीन प्रश्नों में से किन्हीं दो के उत्तर लगभग 50-60 शब्दों में लिखिए-

4X2=8

(क) 'साना-साना हाथ जोड़ि' पाठ के आधार पर लिखिए कि रंगीन और सफ़ेद बौद्ध पताकाएँ किसका प्रतीक हैं और इनके बारे में क्या मान्यता प्रचलित है ?

(ख) लेखक ने 'लिखने' को लेकर कौन-कौन से कारण प्रस्तुत किए? 'मैं क्यों लिखता हूँ ?' पाठ के आधार पर उत्तर दीजिए।

(ग) 'माता का अँचल' पाठ में आपने भोलानाथ के पिता की दिनचर्या पढ़ी। उनकी दिनचर्या आपके पिताजी की दिनचर्या से किस प्रकार मिलती है?

### (खंड-घ, रचनात्मक लेखन)

12. निम्नलिखित तीन विषयों में से किसी एक विषय पर लगभग 120 शब्दों में एक अनुच्छेद लिखिए-

6

(क) परहित सरिस धर्म नहीं भाई

संकेत-बिंदु .लोकोक्ति का अर्थ .परोपकार के अलग-अलग तरीके .जीवन में खुशी का भंडार

(ख) नैतिक मूल्यों का पतन

संकेत-बिंदु .नैतिकता से तात्पर्य .पतन के कारण .अनैतिकता से हानि .उपाय

(ग) सच्चे मित्र की कसौटी

संकेत-बिंदु .सच्चा मित्र कौन .सच्चे मित्र के लाभ .अच्छे-बुरे की पहचान

13. आप लक्षित / लक्षिता हैं। आपके छोटे भाई ने बोर्ड की परीक्षा में अक्वल स्थान हासिल किया है। वह पिता जी से पुरस्कार स्वरूप एक मोटरसाइकिल की माँग कर रहा है। लगभग 100 शब्दों में पत्र लिखकर उसे समझाइए कि वयस्क होने से पहले वाहन चलाना गलत है।

5

### अथवा

आप कमल/कमला हैं। आपके क्षेत्र में हर रोज बढ़ती भीड़ के कारण वाहन चालकों को अनेक मुश्किलों का सामना करना पड़ रहा है। इस समस्या के समाधान के लिए सड़कों की चौड़ाई बढ़ाने की आवश्यकता पर बल देते हुए अपने प्रांत के मुख्यमंत्री को लगभग 100 शब्दों में पत्र लिखिए ।

14. आप रितिक/रितिका हैं। आपने एम.एससी., बी.एड. पास कर ली है और दिल्ली के किसी स्कूल में विज्ञान के अध्यापक /अध्यापिका पद पर आवेदन करना चाहते हैं। इसके लिए अपनी समस्त शैक्षणिक योग्यताओं का वर्णन करते हुए लगभग 80 शब्दों में एक स्ववृत्त तैयार कीजिए। 5

अथवा

आप मोहन/मोहिनी हैं। आपके शहर में सभी प्रकार के खाद्य पदार्थों में मिलावट का धंधा जोर-शोर पर है। इस समस्या के प्रति ध्यान आकृष्ट करवाने के लिए अपने राज्य के खाद्य मंत्री को लगभग 80 शब्दों में ई-मेल लिखिए।

15.बाढ़ग्रस्त इलाकों में 'सहायता शिविर' लगाने हेतु लगभग 40 शब्दों में विज्ञापन तैयार कीजिए। 4

अथवा

अपने मित्र के पिता जी की प्रोन्नति पर बधाई संदेश लगभग 40 शब्दों में लिखिए।



# Delhi Public School, Howrah

PER BOARD -II (2024 – 2025)

Class- X

Care must be taken not to write anything on the question paper. All the questions must be attempted in the correct sequence.

Subject:- BENGALI (005)

Time:- 3 HOURS

F.M.-80

PART-A: Objective type Questions(MCQ): 25Marks

Section-A

(Reading:Unseen Comprehension)

1. অনুচ্ছেদগুলি পাঠ করে প্রদত্ত প্রশ্নগুলির সঠিক উত্তর নির্বাচন করে লেখো:

[(1×4)×3=12]

১৮৮১ খ্রিস্টাব্দের নভেম্বর মাসে নরেন্দ্রনাথ শ্রীরামকৃষ্ণদেবকে প্রথম দর্শন করেন। শিমুলিয়া পল্লীতে নরেন্দ্রনাথের বাটার নিকটেই শ্রীরামকৃষ্ণদেবের ভক্ত শ্রী সুরেন্দ্রনাথ মিত্র বাস করতেন। সেখানে শ্রীরামকৃষ্ণদেবের আগমন উপলক্ষে গান গাইবার জন্য সুকণ্ঠ, সুগায়ক নরেন্দ্রনাথ আহূত হইয়াছিলেন।

তাহার বয়স তখন আঠারো বৎসর, এফ. এ. পরীক্ষা দিবার জন্য তিনি প্রস্তুত হইতেছিলেন। এই প্রথম দর্শনেই শ্রীরামকৃষ্ণদেব নরেন্দ্রনাথের প্রতি বিশেষভাবে আকৃষ্ট হন, এবং একদিন দক্ষিণেশ্বরে যাইবার জন্য তাঁহাকে সর্বিশেষ অনুরোধ করেন। নরেন্দ্রনাথ শ্রীরামকৃষ্ণের নাম ইতিপূর্বেই শুনিয়াছিলেন। 'জেনারেল অ্যাসেম্বলি ইন্সটিটিউশন' কলেজের অধ্যক্ষ হেস্টিংস সাহেব একদিন ইংরেজি ক্লাসে পড়াইতে আসিয়া প্রসঙ্গক্রমে শ্রীরামকৃষ্ণদেবের নাম উল্লেখ করিয়াছিলেন। ইংরেজ কবি ওয়ার্ডসওয়ার্থ প্রকৃতির মনোরম দৃশ্য দেখিয়া মাঝে মাঝে এতদূর তন্ময় হইয়া যাইতেন যে তাহার বাহ্যসংজ্ঞা লোপ পাইত, সমাধি হইত। এই সমাধি কী, তাহা বুঝাইতে যাইয়া হেস্টিংস সাহেব ছাত্রদের বললেন, "চিন্তের পবিত্রতা ও বিষয় বিশেষে একাগ্রতা হইতে এই সমাধি হইয়া থাকে। একমাত্র দক্ষিণেশ্বরে রামকৃষ্ণ পরমহংসদেবের আজকাল ঐরূপ অবস্থা হইতে দেখিয়াছি।"

I. মন্তব্য : ঠাকুর শ্রীরামকৃষ্ণদেব মাঝে মাঝেই সমাধিস্থ হতেন।

কারণ : তাঁর অন্তরের পবিত্রতা ও যে কোনো বিষয়ে ঐকান্তিক নিষ্ঠা তাঁকে সেই পর্যায়ে উন্নীত করত।

- মন্তব্য ও কারণ উভয়ই মিথ্যা।
- মন্তব্য সত্য হলেও কারণ মিথ্যা।
- মন্তব্য ও কারণ উভয়ই সত্য।
- মন্তব্য মিথ্যা হলেও কারণ সত্য।

II. কোন প্রসঙ্গে হেস্টিংস সাহেব ছাত্রদের সামনে রামকৃষ্ণ পরমহংসদেবের কথা উল্লেখ করেন ?

- দর্শন ক্লাসে অধ্যাত্মবাদ আলোচনা প্রসঙ্গে।
- ইংরাজী ক্লাসে বার্নার্ড শ-এর কবিতার ব্যাখ্যা প্রসঙ্গে।
- প্রকৃতিপ্রেমী কবি ওয়ার্ডসওয়ার্থের তন্ময়তার প্রসঙ্গে।
- রামকৃষ্ণদেবের অলৌকিক ক্ষমতার প্রসঙ্গে।

III. "প্রকৃতির মনোরম দৃশ্য দেখিয়া মাঝে মাঝে এতদূর তন্ময় হইয়া যাইতেন যে তাহার বাহ্যসংজ্ঞা লোপ পাইত, সমাধি হইত।" -

--- কার কথা বলা হয়েছে ?

- কবি ওয়ার্ডসওয়ার্থ।
- রামকৃষ্ণ পরমহংসদেব।

c) বার্নাড শ।

d) অধ্যক্ষ হেস্টিংস সাহেব।

IV. শিমুলিয়া পল্লীতে নরেন্দ্রনাথের বাটার নিকটেই শ্রীরামকৃষ্ণদেবের ভক্ত শ্রী সুরেন্দ্রনাথ মিত্র বাস করিতেন।- বাক্যটিকে চলিত বাক্যে রূপান্তর করলে হবে—

a) শিমুলিয়া পল্লীতে নরেন্দ্রনাথের বাটার কাছেই শ্রী রামকৃষ্ণদেবের ভক্ত শ্রী সুরেন্দ্রনাথ মিত্র বাস করতেন।

b) শিমুলিয়া পল্লীতে নরেন্দ্রনাথের বাড়ির নিকটেই শ্রী রামকৃষ্ণদেবের ভক্ত শ্রী সুরেন্দ্রনাথ মিত্র বাস করতেন।

c) শিমুলিয়া পল্লীতে নরেন্দ্রনাথের বাড়ির কাছেই শ্রী রামকৃষ্ণদেবের ভক্ত শ্রী সুরেন্দ্রনাথ মিত্র বাস করতেন।

d) শিমুলিয়া পল্লীতে নরেন্দ্রনাথের বাটার কাছেই শ্রীরামকৃষ্ণদেবের ভক্ত শ্রী সুরেন্দ্রনাথ মিত্র বাস করিতেন।

B. চৈত্রমাসের শেষে এমন কাণ্ডের সূত্রপাত হইল যাহার অভিজ্ঞতা কখনও ছিল না। পৌষমাসে কিছু বৃষ্টি পড়িলেও তারপর ঘোর অনাবৃষ্টি। সঙ্গে যেমন অসহ্য গ্রীষ্ম, তেমনই নিদারুণ জলকষ্ট। শুধু গ্রীষ্ম বা জলকষ্ট বলিলে এ প্রাকৃতিক বিপর্যয়ের স্বরূপ কিছুই বোঝানো যাইবে না। সারা জঙ্গল- মহালে যেখানে যত খাল, ডোবা, কুণ্ডি অর্থাৎ বড় জলাশয় ছিল সব গেল শুকাইয়া। চারিধারে হাহাকার পড়িয়া গিয়াছে। পূর্বে একমাত্র কুশীনদী ভরসা-সেও সাত-আট মাইল দূরে মোহনপুরা রিজার্ভ ফরেস্টের ওপারে। আমাদের জমিদারি ও মোহনপুরা অরণ্যের মধ্যে একটি ছোট পাহাড়ি নদী নেপালের তরাই অঞ্চল হইতে বহিয়া আসিতেছে। কিন্তু বর্তমানে শুধু শুষ্ক বালুময় খাতে তাহার উপলঢাকা চরণচিহ্ন বিদ্যমান। দূরের গ্রাম হইতে মেয়েরা কলসী লইয়া আসে, সারা দুপুর বালি খুঁড়িয়া, বালি-কাদা ছানিয়া আধ-কলসীটাক ঘোলা জল লইয়া বাড়ি ফেরে। কিন্তু পাহাড়ি নদী- স্থানীয় নাম মিছি নদী- আমাদের মহাল হইতে বহু দূরে বলিয়া কোনও কাজে আসেনা। কাছারিতে কোনও বড় ইদারা নাই। ছোট বালির পাভকুয়াটি হইতে পানীয় জলের সংস্থান হওয়াই বিষম সমস্যার। দুপুরে বাহিরে দাঁড়াইয়া তাম্রাভ অগ্নিবর্ষী আকাশ ও অর্ধশুষ্ক বনঝাউ ও লম্বা ঘাসের বন দেখিতে ভয় করে চারিধার যেন দাউদাউ করিয়া জ্বলিতেছে দ্বিপ্রহরে সূর্যের এই ভয়ানক রুদ্ররূপ কখনও দেখি নাই, কল্পনাও করি নাই। চৈত্র-বৈশাখ মাসে একেকদিন পশ্চিমদিক হইতে বালির ঝড় বয় বলে কাছারি হইতে একশ গজ দূরের জিনিস ঘন বালি আর ধূলিরাশির আড়ালে ঢাকিয়া যায়।

I. কোন জিনিসটি কথকের কাছে ভয় উদ্বেককারী বলে মনে হয়েছে?

a) প্রাকৃতিক বিপর্যয়

b) দুপুরের আশুনবারা আকাশ, রৌদ্রের প্রাচুর্য, বিস্ক্রপায় ঝাউবন

c) ভূমিকম্প

d) পানীয় জলের অপ্রতুলতা

II. সামান্য ঘোলা জলটুকু নিতে দূরের গ্রাম থেকে মেয়েরা কোথায় আসে?

a) কুশী নদীতে

b) কাছারির বড় ইদারাতে

c) তরাই অঞ্চল থেকে বয়ে আসা ছোট পাহাড়ি নদীতে

d) স্থানীয় অঞ্চল থেকে বয়ে আসা পাহাড়ি নদী মিছি নদীতে

III. মন্তব্য বিষয়ে প্রদত্ত বিকল্পগুলির মধ্যে কোনটি গ্রহণযোগ্য?

মন্তব্য (ক) কাছারি হইতে একশ গজ দূরের জিনিস ঘন বালি আর ধূলিরাশির আড়ালে ঢাকিয়া যায়। কারণ, চৈত্র-বৈশাখ মাসে মাঝে মাঝে পশ্চিমদিক হইতে বালির ঝড় বয়।

মন্তব্য (খ) কাছারি হইতে একশ গজ দূরের জিনিস ঘন বালি আর ধূলিরাশির আড়ালে ঢাকিয়া যায়। কারণ, সারা বছরই মাঝে মাঝে পশ্চিমদিক হইতে প্রবল বেগে পশ্চিমী ঝড় বয়।

a) মন্তব্য (ক) সঠিক, কিন্তু মন্তব্য (খ) গ্রহণযোগ্য নয়

- b) মন্তব্য (খ) সঠিক, কিন্তু মন্তব্য (ক) গ্রহণযোগ্য নয়
- c) মন্তব্য (ক) এবং মন্তব্য (খ) দুটোই সঠিক
- d) মন্তব্য (ক) এবং (খ) কোনোটাই গ্রহণযোগ্য নয়

IV. প্রদত্ত অনুচ্ছেদ থেকে এমন একটি শব্দ খুঁজে বের করো যার বিপরীতার্থক শব্দ হতে পারে 'অভিবৃষ্টি'।

- a) অগ্নিবর্ষা
- b) বিপর্যয়
- c) তুমুল বৃষ্টি
- d) অনাবৃষ্টি

C. 'রূপদর্শী' ছদ্মনাম নিয়ে নূতন লেখক খালাসীদের সম্বন্ধে একটি দরদ-ভরা লেখা ছেড়েছে। ছোকরার পেটে এলেম আছে। নইলে অতখানি কথা শুছিয়ে লিখল কী করে? আর এত সব কেছাকাহিনিই বা যোগাড় করল কোথা থেকে? আমি তো একখানা ছুটির আরজি লিখতে গেলেই হিমশিম খেয়ে যাই। কিন্তু লোকটা যা সব লিখেছে, এর কী সবই সত্য? এত বড় অন্যান্য-অবিচারের বিরুদ্ধে লড়াই দেয় না কেন? হুঁ! এ আবার একটা কথা হল! সিলেট নোয়াখালির আনাড়িরা দেবে ঘুঘু ইংরেজদের সঙ্গে লড়াই - আমিও যেমন!

জাহাজের মেজো সারেঙের আজ বোধহয় ছুটি। সিক্কের লুঙ্গি, চিকনের কুর্তা আর মুগার কাজ করা কিন্তু টুপি পড়ে ডেকের ওপর টহল দিয়ে যাচ্ছে। মাঝে মাঝে আবার আমার দিকে আড়নয়নে তাকাচ্ছেও। ডিসপ্যাচের পুঁটি ও মানওয়ারির তিনি দুই-ই মাছ- একেই জিজ্ঞাসা করা যাক না কেন, 'রূপদর্শী' দর্শন করেছে কতটুকু আর কল্পনায় বুনেছে কতখানি। একটুখানি গলা খাঁকরি দিয়ে শুধালুম, 'ও সারেঙ সাহেব, জাহাজ লেট যাচ্ছে না তো?' লোকটা উত্তর দিয়ে সবিনয়ে বললে, 'আমাকে "আপনি" বলবেন না সাহেব। আমি আপনাকে দু-একবারের বেশি দেখিনি। কিন্তু আপনার আকা সাহেব, বড় ভাই সাহেবরা এ গরিবকে মেহেরবানি করেন।'

খুশি হয়ে বললুম, 'তোমার বাড়ি কোথায়? বোসো। না, তার ফুরসত নেই?'

ধপ করে ডেকের উপর বসে পড়ল।

আমি বললুম, 'সে কী? একটা টুল নিয়ে এস। এসব আর আজকাল...' কথাটি শেষ করলুম না, সারেঙও টুল আনল না। তারপর আলাপ-পরিচয় হল। দ্যাশের লোক- সুখ-দুঃখের কথা অবশ্যই বাদ পড়ল না। শেষটায় মোওকা পেয়ে 'রূপদর্শী দর্শন' তাকে আগাগোড়া পড়ে শোনালুম। সে গভীর মনোযোগ দিয়ে তার জাতভাই চাষারা যে-রকম পুঁথিপড়া শোনে, সে-রকম আগাগোড়া শুনল, তারপর খুব লম্বা একটা দীর্ঘনিশ্বাস ফেলল।

I. 'সিক্কের লুঙ্গি, চিকনের কুর্তা আর মুগার কাজ করা কিন্তু টুপি পড়ে ডেকের ওপর টহল দিয়ে যাচ্ছে।' - এই রকম পোশাক পরিহিত কোন ব্যক্তির কথা এখানে বলা হয়েছে?

- a) মেজো সারেঙের কথা
- b) জাহাজের কোনো এক যাত্রীর কথা
- c) রূপদর্শী ছদ্মনামে কোনো এক ব্যক্তি
- d) লেখকের বন্ধু

II. 'তারপর আলাপ-পরিচয় হল।'- এই আলাপ-পরিচয়ের মধ্যে কোন কথা অবশ্যই হল?

- a) হারিয়ে যাওয়া বন্ধুর কথা
- b) দেশের লোক- সুখ দুঃখের কথা
- c) জাহাজের নানান অভিজ্ঞতার কথা
- d) লেখকের করুণ জীবনের কথা

III. মোওকা পেয়ে লেখক যা করেছিল তা হল-

- a) একহাত দাবা খেলে নিয়েছিল
- b) 'রূপদর্শী দর্শন' তাকে আগাগোড়া পড়ে শুনিয়েছিল
- c) অপমানের বদলা নিয়েছিল
- d) উপকারের কৃতজ্ঞতা জানিয়েছিল

IV. 'ফুরসত'- কথার অর্থ হল-

- a) অপেক্ষা
- b) আগ্রহ
- c) সময়
- d) ইচ্ছা

### Section-B

#### Grammar: (MCQ)

2. ব্যাকরণ থেকে প্রদত্ত প্রশ্নগুলির সঠিক বিকল্প উত্তর বেছে লেখো: (যে কোনো তিনটি)

[1×3=3]

I. নন্দীবাবু জমা খরচের হিসাব মিলিয়ে দিয়ে হাওয়ায় মিলিয়ে গেলেন।- সাধু ভাষায় রূপান্তরিত করলে হবে ---

- a) নন্দীবাবু জমা খরচের হিসাব মিলিয়ে দিয়ে হাওয়ায় মিলাইয়া গেলেন।
- b) নন্দীবাবু জমা খরচের হিসাব মিলাইয়া দিয়ে হাওয়ায় মিলিয়ে গেলেন।
- c) নন্দীবাবু-জমা খরচের হিসাব মিলাইয়া দিয়া হাওয়ায় মিলাইয়া গেলেন।
- d) নন্দীবাবু-জমা খরচের হিসাব মিলিয়ে দিয়া হাওয়ায় মিলাইয়া গেলেন।

II. সারেং যেন আমার প্রশ্ন শুনতে পায়নি।- সাধু ভাষায় রূপান্তরিত করলে হবে -

- a) সারেং যেন আমাদিগের প্রশ্ন শুনতে পায়নি।
- b) সারেং যেন আমার প্রশ্ন শুনতে পায় নাই।
- c) সারেং আমার প্রশ্ন শুনতে পায় নাই।
- d) সারেং যেন আমার প্রশ্ন শুনতে পায় নাই।

III. বাঙালির অতীত গৌরব বিস্মৃতির নিবিড় অন্ধকারে ডুবিয়া গিয়াছিল।-চলিত বাক্যে রূপান্তরিত করলে হবে---

- a) বাঙালির অতীত গৌরব বিস্মৃতির নিবিড় অন্ধকারে ডুবে গিয়াছিল।
- b) বাঙালির অতীত গর্ব বিস্মৃতির নিবিড় অন্ধকারে ডুবে গেছিল।
- c) বাঙালির অতীত গৌরব বিস্মৃতির নিবিড় অন্ধকারে ডুবিয়া গেছিল।
- d) বাঙালির অতীত গর্ব বিস্মৃতির নিবিড় অন্ধকারে ডুবিয়া গেছিল।

IV. বর্ষা বাদলে কোনো প্রকারে দুই-তিন জন মাথা গুঁজিয়া থাকিতে পারে।- চলিত ভাষায় রূপান্তরিত করলে হবে -

- a) বর্ষা বাদলে কোনো রকমে দুই তিনজনে মাথা গুঁজিয়া থাকতে পারে।
- b) বর্ষা বাদলে কোনো রকমে দুই তিনজনে মাথা গুঁজে থাকতে পারে।
- c) বর্ষা বাদলে কোনো প্রকারে দুই তিনজনে মাথা গুঁজে থাকতে পারে।
- d) বর্ষায় কোনো রকমে দুই তিনজনে মাথা গুঁজে থাকতে পারে।

V. শশাঙ্ক কান্যকুজ হইতে কলিঙ্গ পর্যন্ত তাঁহার সাম্রাজ্য প্রতিষ্ঠা করিয়াছিলেন। -চলিত ভাষায় রূপান্তর করলে হবে-

- শশাঙ্ক কান্যকুজ হইতে কলিঙ্গ পর্যন্ত তাঁহার সাম্রাজ্য প্রতিষ্ঠা করেছিলেন।
- শশাঙ্ক কান্যকুজ থেকে কলিঙ্গ পর্যন্ত তাঁর সাম্রাজ্য প্রতিষ্ঠা করেছিলেন।
- শশাঙ্ক কান্যকুজ হইতে কলিঙ্গ পর্যন্ত তাঁর সাম্রাজ্য প্রতিষ্ঠা করেছিলেন।
- শশাঙ্ক কান্যকুজ থেকে কলিঙ্গ পর্যন্ত তাঁহার সাম্রাজ্য প্রতিষ্ঠা করেছিলেন।

### Section-C

#### Main Course Book & Supplementary Reader/ Non-detailed Text: (MCQ)

3. পাঠ্য গদ্য থেকে প্রদত্ত প্রশ্নগুলির সঠিক বিকল্প উত্তর নির্বাচন করে লেখো: (যে কোনো ছয়টি)

[1×6=6]

I. “আমার ঘড়িটা চুরি হয়ে গেছে। ঠিক সময় হয়তো ভালো করে দম দিতে পারবে না।”—এই উক্তিটি থেকে বোঝা যায় যে -

- ঘড়িটা চুরি যাওয়াতে বিরক্ত।
- ঘড়ি চোরকে তিনি সাজা দিতে চান।
- ঘড়িটিকে তিনি সন্তানের মতো ভালোবাসেন।
- ঘড়িটা খুব যত্ন করে রেখেছিলেন।

II. “সারা বাড়িতে শোরগোল পড়ে যায়”- কারণ,

- আলোবাবু একটি কাণ্ডগোলনহীন কাজ করেছিল।
- তপনের গল্পটি ছাপা হয়েছিল।
- তপনের মাসির বিয়ের দিন ছিল।
- তপন হঠাৎ করে একটা গল্প লিখে ফেলেছিল।

III. বিরাগী বললেন, ‘ঠাণ্ডা জল চাই আর কিছু চাই না’-

কারণ ক- জগদীশবাবু কিভাবে তার সেবা করবেন জানতে চেয়েছিলেন।

কারণ খ- পার্থিব কোনো বস্তুর প্রতি তার কোনো মোহ ছিল না।

- কারণ ক ও খ দুটোই ঠিক
- কারণ ক ও খ দুটোই ভুল
- কারণ ক ঠিক খ ভুল
- কারণ ক ভুল খ ঠিক

IV. ‘তার মানে তপনের মেসোমশাই একজন লেখক, সত্যিকারের লেখক’- কোন্ কোন্ যুক্তি নতুন মেসোকে ‘সত্যিকারের লেখক’ বলে তপনের কাছে পরিচিতি দিয়েছে?

- তিনি গল্প করেন, তর্ক করেন, বইও ছাপিয়ে দেন।
- তিনি বই লেখেন ও তার অনেক বই ছাপানো হয়।
- তিনি দাড়ি কামান, বই পড়েন, ঘুমানোর সময় ঘুমান।
- তিনি সিগারেট খান, সিনেমা দেখেন, তার বইও ছাপানো হয়।

V. ইসাবের মতো জামা না পেলে অমৃত কোথায় যাবে না?

- ক্ষেতে কাজ করতে
- মামার বাড়ি
- মাসির বাড়ি

D. স্কুলে

VI. “একদিন আমার ল্যাবরেটরিতে এসে শুষ্ক মুখে বসে আছেন”-

কারণ ক) বহুকষ্টে পাওয়া হাসপাতালের চাকরিটি তিনি হারিয়েছেন।

কারণ খ) অবিনাশবাবুর বাড়ি থেকে তিনি বিতাড়িত হয়েছিলেন।

A. কারণ ক ও খ দুটোই ঠিক

B. কারণ ক ও খ দুটোই ভুল

C. কারণ ক ঠিক খ ভুল

D. কারণ ক ভুল খ ঠিক

VII. আলোবাবু সম্পর্কিত কোন্ মন্তব্যটি গল্প অনুযায়ী সঠিক নয়-

A. তার চেহারা নামের উপযুক্ত নয়

B. গায়ের রঙ কালো

C. গলায় পড়তেন রুদ্রাক্ষের মালা

D. তিনি ছিলেন মেহের কাঙাল

VIII. মন্তব্য- “তপন ছাতে উঠে গিয়ে শার্টের তলাটা তুলে চোখ মোছে”।

কারণ- জহুরি তপনকে নকল রত্নের মালিক করে তুলেছিল।

A. মন্তব্যটি ভুল, কারণ সঠিক।

B. মন্তব্য ও কারণ- দুটিই সঠিক।

C. মন্তব্য ও কারণ- দুটিই ভুল।

D. মন্তব্যটি সঠিক, কারণ ভুল।

4. গল্পগুচ্ছ থেকে প্রদত্ত প্রশ্নের সঠিক উত্তর নির্বাচন করোঃ (যে কোনো চারটি)

I. ‘তোমার কীসের দোষ’- এখানে কোন্ দোষের বিষয়ে সন্দেহ প্রকাশিত হয়েছে ?

a) শশিভূষণের জমিদারি খাজনার দায়ে নিলাম হয়ে যাওয়া।

b) ব্রজসুন্দরির প্রতি রাসমণির রূপ ব্যবহার

c) সংসার খরচের টাকা ব্রজসুন্দরিকে দান

d) প্রজাদের ক্ষোভ প্রদর্শন

II. ‘বড়োগিন্নি ব্রজসুন্দরির সেটা কিছু অসহ্য বোধ হইত’। কারণ-

কারণ ক) শশিভূষণ অনেক সময়ই ত্রীর অনুরোধ অপেক্ষা রাখামুকুন্দের পরামর্শের উপর বেশি নির্ভরশীল ছিল।

কারণ খ) জমিদারি পরগনা নিলাম হলে শশিভূষণ তার ত্রীর গয়না বন্দক দেবার কথা বলেছিলেন।

a) কারণ ক ও খ দুটোই ঠিক

b) কারণ ক ও খ দুটোই ভুল

c) কারণ ক ঠিক খ ভুল

d) কারণ ক ভুল খ ঠিক

III) মিনি আগড়ুম বাগড়ুম খেলা করতো-

a) ঘরের কোণায় b) ঘরের মধ্যে c) টেবিলের পাশে d) খাটের পাশে

IV) মিনিকে প্রথম দেখার পর কাবুলিওয়ালা তার ঝুলি থেকে কী উপহার দিয়েছিল?

a) আখরোট ও কিশমিশ b) কিশমিশ ও খোবানি c) কাজু ও কিশমিশ d) পেস্তা ও কিশমিশ

4 x 1=4

v) পোস্টমাস্টার যখন পড়াশোনা শেখাবেন বলে রতনকে ডেকে পাঠালেন তখন সে কী করছিল?

- a) পোস্টমাস্টারের ঘর পরিষ্কার করছিল  
b) পেয়ারাতলায় পা ছড়িয়ে বসে কাঁচা পেয়ারা খাচ্ছিল  
c) পোস্টমাস্টারের জন্য মানের জল তুলছিল  
d) রান্নাঘরে রাতের খাবার প্রস্তুত করছিল

## PART- II: DESCRIPTIVE TYPE QUESTION

### SECTION - B (Grammar Subjective)

5. সন্ধি যুক্ত অথবা বিযুক্ত করো। (যে কোনো চারটি) 4x1=4

a. কোথেকে b. দুঃ +নিবার c. পরিঃ + কার d. সম্ + কল্প e. পরস্পর f. দৃষ্টি

6. রেখাঙ্কিত পদগুলির ব্যাসবাক্য সহ সমাস নির্ণয় করো। (যে কোনো তিনটি) 3x1=3

- a) জীবনযুদ্ধে সে হার মানবে না।  
b) এবার সে ভালোই বেকায়দায় পড়েছে।  
c) এই ছাত্রজীবন আনন্দের।  
d) তার কাঁচালেখা পড়তে অসুবিধা হচ্ছে।

7. নির্দেশ অনুসারে বাক্যগুলির গঠনগত রূপান্তর করো। (যে কোনো তিনটি) 3x1=3

- a. কর্ণ মহাবীর হলেও চিরদিন কৃপার পাত্র। (যৌগিক বাক্য)  
b. অশ্বারোহী পর্বতের উপর হইতে দেখিল, চারিজন একজনকে বাঁধিয়া রাখিয়া চলিয়া গেল। (জটিল বাক্য)  
c. যদি ভয় পাও তবে ঈশ্বরকে স্মরণ করো। (সরল বাক্য)  
d. এতো সম্পত্তি রহিয়াছে তাও দারিদ্র যুঁচিল না। (জটিল বাক্য)  
e. তুমি এতো চঞ্চল বলে লেখা শেষ করতে অসুবিধা হয়। (যৌগিক বাক্য)

### SECTION- C

(Main Course Book & Supplementary Reader/ Non- Detailed Text)

8. “বড়ো চমৎকার আজকের এই সন্ধ্যার চেহারা।”- উল্লিখিত সন্ধ্যার নৈসর্গিক রূপের বর্ণনা দাও। 2  
9. a) “ওসব হলো সুন্দর সুন্দর এক একটি বঞ্চনা।”- এই উক্তি দ্বারা বক্তা কী বোঝাতে চেয়েছেন? 3  
b) “ওরা ভয়ে কাঁঠ হয়ে গেল।”- ওরা ভয়ে কাঁঠ হয়ে গেছিল কেন? 3  
10. “বইটা ফেলে রেখে চলে যায়।”- কার কখন এই প্রতিক্রিয়া? এই প্রতিক্রিয়ার সূত্রে তার যে মানসিক পরিবর্তন তা পাঠ্য গল্পের প্রেক্ষিতে কতটা যুক্তিযুক্ত বলে তোমার মনে হয়? 2+3

অথবা

“সমাজের সঙ্গে নিজেেকে তিনি খাপ খাওয়াতে পারলেন না কিছুতেই।”- আলোচ্য অংশের বক্তা এবং তিনি বলতে কার কথা বলা হয়েছে? সমাজের সাথে তার খাপ খাওয়াতে না পারার কী কারণ বলে মনে হয়? 2+3=5

11. “পূব আকাশে আস্তে ধীরে আলোর ঘোমটা খোলে।”- ‘আলোর ঘোমটা খোলে’ বলতে কবিতায় কী বোঝানো হয়েছে? আলোর ঘোমটা খোলার সাথে সাথেই প্রকৃতির কোন্ পরিবর্তন কবির চোখে ধরা পড়েছে তার বর্ণনা দাও। 2+3

অথবা

‘একাসনে একাকারে প্রার্থনা করছে।’-

কবি কাদের প্রার্থনার কথা বলছেন? তারা কেন এবং কীসের জন্য প্রার্থনা করছে? 2+3

12. সূত্র ও প্রসঙ্গ উল্লেখ করে ব্যাখ্যা লেখো।

5

‘আঁকড়ে ধরে সে খড়কুটো  
.....রক্ত মুছি শুধু গানের গায়ো’

অথবা

‘আয় আরো হাতে হাত রেখে  
আয় আরো বেঁধে বেঁধে থাকি’

13. “পোস্টমাস্টার রতনের এইরূপ ব্যবহার কখনো দেখেন নাই, তাই অবাক হইয়া রহিলেন।”- রতনের কোন্ অস্বাভাবিক আচরণে পোস্টমাস্টার অবাক হয়েছিলেন? তার এই অস্বাভাবিক ব্যবহারের পিছনে রতনের কোন্ মানসিকতার প্রকাশ ঘটেছে প্রাসঙ্গিক ঘটনা অবলম্বনে লেখো।

2+3=5

14. “আমাকে মানিতে হইল ব্যাপারটা অসম্ভব নহে কিন্তু অবিশ্বাস্য।”-ব্যাপারটি কী? অসম্ভব হলেও বক্তার কাছে বিষয়টি অবিশ্বাস্য মনে হয়েছে কেন?

2+3=5

অথবা

“এমন সময়ে একটি গুরুতর ঘটনা ঘটল”- গুরুতর ঘটনাটা কী? সমস্যা সমাধানের জন্য কে কী করেছিলেন গল্পানুসারে লেখো।

2+3=5

#### SECTION – D

#### (Creative Writing)

15. নিম্নলিখিত যে কোনো একটি বিষয় অবলম্বনে অনুচ্ছেদ রচনা করো। (শব্দসীমা অনধিক ১৩০-১৫০)

6

A. পরিবেশ দূষণে প্লাস্টিকঃ আমাদের কর্তব্য

B. তোমার প্রিয় সাহিত্যিক

C. একটি ভয়াবহ প্রাকৃতিক দুর্যোগ থেকে রক্ষা পাওয়ার অভিজ্ঞতা

16. নিম্নলিখিত যে কোনো একটি বিষয় অবলম্বনে পত্ররচনা করো।

6

A. ‘অনলাইন’ পরিষেবার অজ্ঞাত ফাঁদে পা দিয়ে প্রায়শই বিভ্রান্ত ও সর্বশান্ত হচ্ছে সাধারণ মানুষ। তাই সে বিষয়ে সকলকে সতর্ক করে মহানগরীর কর্তৃ পত্রিকার সম্পাদকের উদ্দেশ্যে একটি পত্র লেখো।

B. যুব সম্প্রদায়ের মধ্যে বেপরোয়া গাড়ি চালানো একটা সাধারণ ব্যাপার হয়ে দাঁড়িয়েছে। এ বিষয়ে তোমার মতামত জানিয়ে সংবাদপত্রের সম্পাদকের উদ্দেশ্যে একটি চিঠি লেখো।



# Delhi Public School, Howrah

PRE-BOARD – II (2024-2025)

Class – X

**Care must be taken not to write anything on the question paper. All the questions must be attempted in the correct sequence.**

SUBJECT: ARTIFICIAL INTELLIGENCE (SUBJECT CODE 417)

THEORY EXAMINATION

Time Allowed: -2 Hours

F.M.-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.	Animesh won a badminton match. Now he gets up at 5 am every morning to practice badminton before school as he wants to win the Zonal match at the end of the year. What kind of motivation is this? (a) Internal Motivation (b) External Motivation (c) Both a and b (d) Without Motivation	(1)
ii.	Statement 1: A realistic goal is one that has no timeline or plans for execution. Statement 2: Breaking down big goals into smaller parts will make the goal achievable. (a) Both Statement I and Statement II are correct (b) Both Statement I and Statement II are incorrect (c) Statement I is correct but Statement II is incorrect (d) Statement I is incorrect but Statement II is correct	(1)
iii.	Here are the steps that take place when starting a computer. Rearrange the steps in the correct order. i. Desktop appears after login ii. Login screen appears iii. Power on Self-Test (POST) starts	(1)

	<p>iv. Operating system starts</p> <p>(a) i) -&gt; ii) -&gt; iii) -&gt; iv) -&gt; v)      (b) ii) -&gt; iv) -&gt; iii) -&gt; v) -&gt; i)      (c) iii) -&gt; iv) -&gt; v) -&gt; ii) -&gt; i)  (d) iii) -&gt; v) -&gt; iv) -&gt; ii) -&gt; i)</p>	
iv.	<p>_____ is the ability to control one's emotions, thoughts and behavior effectively in different situations.</p> <p>(a) Self-control      (b) Self-awareness      (c) Self-motivation      (d) Self-management</p>	(1)
v.	<p>Anita and Ratul both own plant shops. Ratul sits at his shop every day. When customers come, he sells them plants. Anita walks around and gets customers to her shop. She also sells seeds and flowers. Who is entrepreneur out of Anita and Ratul?</p> <p>(a) Anita      (b) Ratul      (c) Both a. and b.      (d) Neither Anita nor Ratul</p>	(1)
vi.	<p>In the questions given below, there are two statements marked as Assertion (A) and Reason (R). Read the statements and choose the correct option.</p> <p><b>Assertion (A):</b> Sustainable development makes people aware of the responsibility to use and preserve natural resources.</p> <p><b>Reason (R):</b> Corruption is the biggest obstruction to sustainable development.</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)

<b>Q. 2 Answer any 5 out of the given 6 questions</b>		<b>(1 x 5 = 5 marks)</b>
i.	<p>IBM's Watson is a Questionnaire machine which understands the questions and text in natural language. Which of the following refers to it?</p> <p>(a) Image processing      (b) Speech recognition  (c) Natural language processing      (d) Block chain technology</p>	(1)
ii.	<p>The healthcare industry has been looking for a viable voice transcription solution instead of prescription. In order to improve the documentation procedures during surgeries and appointments. Speech to text software has been a very relevant and promising topic in healthcare since the early eighties. The solution is achieved by:</p> <p>(a) computer vision      (b) robotics      (c) speech recognition      (d) neural network</p>	(1)
iii.	<p>An AI system uses two broad classes of data namely content data which includes the raw video streams title, description, etc, and user activity data that includes rating a video, favouring/liking a video, or subscribing to an up-loader, and watch time. Based on this, the AI system measures a user's engagement and happiness. It then starts computing personalized recommendations to the user. Which of the following applications can you relate to this?</p> <p>(a) Self-driving car  (b) Siri  (c) Email filters  (d) YouTube</p>	(1)
iv.	<p>"Clustering " is an example of _____.</p> <p>(a) Supervised learning      (b) Unsupervised Learning      (c) Reinforcement Learning  (d) Not a Learning Approach</p>	(1)
v.	<p>A well-known news channel broadcasts information on a wide range of topics, including politics, government, foreign affairs, sports and the latest movie and television news. Reporters are in charge of gathering, evaluating and transmitting information about current events. Furthermore, the news channel permits people to submit breaking news, which is subject to verification by the channel's reporters. However, it may be difficult to distinguish between real news and fake news, which can lead to confusion among readers and threaten a news organization's reputation. Which</p>	(1)

	of the following domains is used to detect fake news so that the audience has a high level of trust in the news channel? (i) Computer Vision (ii) Matrices (iii) Natural Language Processing (iv) Data Science	
vi.	Amazon had been working on a secret AI recruiting tool. The machine-learning specialists uncovered a big problem: their new recruiting engine did not like women. The system taught itself that male candidates were preferable. It penalised resumes that included the word "women". This led to the failure of the tool. This is an example of. (a) Data Privacy (b) AI Bias (c) AI access (d) Data Exploration	(1)

<b>Q. 3</b>	<b>Answer any 5 out of the given 6 questions</b>	<b>(1 x 5 = 5 marks)</b>
i.	Manu wants to train a model to identify if an image is of a Pomegranate or Banana. To train the system, he fed the model with multiple images of both Pomegranate and Banana along with their labels. The machine will then classify images on the basis of the labels and predict the correct label for Test data. Here, the data (Pomegranate, Banana) are: (a) Regressed (b) Classified (c) Superimposed (d) Trained	(1)
ii.	Simplification of human language in order to be easily understood by computer is called? (a) Sentence planning (b) Text Normalisation (c) Text Realisation (d) None of these.	(1)
iii.	Rashid went to a library. He picked up a book. He looked at the book cover, read the back cover and skim through the content of the book prior to choosing it. This helped him to understand if this book is appropriate for his needs and interests. Which step in the AI project cycle is this step relate to? (a) Data acquisition (b) Data exploration (c) Modelling (d) Evaluation	(1)
iv.	Your IT teacher shows you videos and explained how neural network works with different applications in our day to day tasks. Which among the following, do you think, is not an application of artificial neural networks? (a) Suggesting most relevant products related to your search on a Gaming web site. (b) Detecting spam mail from your account (c) only a (d) a and b both	(1)
v.	Recall-Evaluation method is _____. (a) defined as the fraction of positive cases that are correctly identified. (b) defined as the percentage of true positive cases versus all the cases where the prediction is true. (c) defined as the percentage of correct predictions out of all the observations. (d) comparison between the prediction and reality	(1)
vi.	Lavish wants to make an Artificially Intelligent system which can help to identify fruits based on pictures of various fruits already fed into the system. Which of the following is the step of project cycle? (a) Data exploration (b) Evaluation (c) Data acquisition (d) Modelling	(1)

<b>Q. 4</b>	<b>Answer any 5 out of the given 6 questions</b>	<b>(1 x 5 = 5 marks)</b>
i.	Rinky went to her home town. Her home town does not have all the facilities that are available in the urban area. She basically is working on selecting a problem which she will solve. In project cycle, which step requires selecting a problem to solve? (a) Problem scoping (b) Evaluation (c) Data acquisition (d) Modelling	(1)
ii.	Rajat has made a model which predicts the performance of Indian Cricket players in upcoming matches. He collected the data of players' performance with respect to stadium, bowlers, opponent team and health. His model works with good accuracy and precision value. Which of the statement given below is incorrect? (a) Data gathered with respect to stadium, bowlers, opponent team and health is known as Testing Data. (b) Data given to an AI model to check accuracy and precision is Testing Data.	(1)

	(c) Training data and testing data are acquired in the Data Acquisition stage. (d) Training data is always larger as compared to testing data.	
iii.	What is the role of modelling in an NLP based AI model? (a) Modelling in NLP helps in processing of AI model (b) Modelling is required to make an AI model (c) In NLP, modelling requires data pre-processing only after which the data is fed to the machine. (d) Modelling is used in simplification of data acquisition	(1)
iv.	Aashana wants to know about the nodes of neural network. Which of the following statement(s) are TRUE about the same? (a) Each node of a neural network has its own task to accomplish which is then passed to the next layer (b) The nodes perform specific actions on the data and pass the processed information to the next layer (c) The nodes of neural network do not process data (d) Both (a) and (b)	(1)
v.	Identify the incorrect statement(s) from the following: (i) Deep learning is a subset of Machine Learning (ii) Machine Learning is a subset of Deep Learning (iii) Artificial Intelligence is a subset of Deep Learning (iv) Deep Learning is the advanced form of AI and ML. (a) only (i) (b) (ii) and (iii) (c) (i) and (ii) (d) Only (iii)	(1)
vi.	A series of algorithms that are loosely modelled, reflecting how neurons in the human brain behave, allowing computer programs to recognize patterns and solve common problems in the fields of AI, machine learning, and deep learning. Here we are talking about_____. (a) Supervised learning (b) Unsupervised learning (c) Neural network (d) Natural language processing	(1)

**Q. 5 Answer any 5 out of the given 6 questions**

**(1 x 5 = 5 marks)**

i.	Which of the following is a type of data used by NLP applications (a) Images (b) Numerical Data (c) Graphical Data (d) Text and speech	(1)
ii.	Artificial intelligence (AI) refers to software technologies that make a machine think like a human But no machine can superimpose human intelligence. But, there can be exceptions too. Which of the following are the limitations of human intelligence? (i) Unreliable: Human intelligence is unreliable as it depends on various factors going around (ii) Limited applications: Human intelligence cannot be applied on all the fields. (iii) Has emotions: Human can feel and can think on their own. (iv) Can take decision: Human can take decisions on their own. (a) (i) and (ii) only (b) (i), (ii), (iii) only (c) (ii), (iii), (iv) only (d) (i), (iii), (iv) only	(1)
iii.	A teacher instructs the students to draw and colour five geometric objects using different colours. The sheets provided by the children are then put into an AI machine which is then sorted, based on similar shapes and colours. The model is able to predict if the image is a red circle, a green rectangle, or a white square, etc. This is an example of: (a) Neural Networks (b) Supervised Learning (c) Unsupervised Learning (d) Reinforcement Learning	(1)
iv.	A technology with in vehicle RADAR and LIDAR sensors provide assistance to drivers to take timely control systems, night vision systems, type pressure, fuel level, engine temperature, brake fluid level, etc., and provide a more comfortable driving experience. Which of the following applications	(1)

	can you relate to this? (a) Self-driving car (b) Semi-automatic technology (c) Augmented reality (d) Remote control technology	
v.	Life support systems and ventilators are equipped with multiple sensors that are designed to monitor and observe body signals in order to activate the device's features. For example, as soon as it senses a drop in the level of oxygen in a person's body, it turns on the artificial oxygen supply. Ventilators are an example of: (a) Machine with emotional intelligence (b) Artificial general intelligence (c) Automated machine (d) Computer vision technology	(1)
vi.	In order to improve the search on Internet, companies like Google and Bing use AI. They use Search Engine Optimization technique based around these ideas. Here the tool of AI, we are talking about: (a) Data science (b) Neural network (c) Natural language processing (d) Machine Learning	(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	Maria is a manager at a tech company. She notices that her team is not as productive as they used to be and decides to conduct an exercise to help her team get into old form. She decides to take her team for a vacation. After returning from the vacation she found some of her members back in their old zeal, but some still needed improvement. (i) What was the probable reason for her team losing the interest in work? (ii) Taking the decision to take her team for a vacation shows which type of trait of Maria's personality?	(2)
Q. 7	Rajesh is making a disk drive named, "Items & their prices," where various records are to be stored. He doesn't need a few pieces of information in those previous records. How can Rajesh identify programs and files that he no longer needs?	(2)
Q. 8	How can you avoid or overcome the barriers to communication?	(2)
Q. 9	Mention any four employment opportunities available for entrepreneurs.	(2)
Q.10	State any two short-term solutions for sustainable development.	(2)

Answer any 4 out of the given 6 questions in 20 – 30 words each

(2 x 4 = 8 marks)

Q.11	Arunima works for a company wherein she was assigned the task of developing a project using AI project cycle. She knew that the first stage was scoping the problem. Help her list the remaining stages that she must go through to develop the project.	(2)
Q.12	What do you mean by AI Ethics?	(2)
Q.13	Chandrima is preparing a school project on AI where she needs to categorize AI based and non AI based applications. Help Chandrima understand that how we can say whether a machine/application is AI based or not? Explain with the help of an example.	(2)
Q.14	Differentiate between script-bot and smart-bot.	(2)
Q.15	Define the term problem scoping. What is the step in an AI project cycle that is followed after problem scoping?	(2)
Q.16	Neural networks are said to be modelled the way how neurons in the human brain behave. A similar system is mimicked by the AI machine to perform certain tasks. State any two features of Neural Networks.	(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 following text and answer the following questions based on the same:</p> <p>In recent years, there has been an increasing concern about the impacts of climate change and other environmental issues on global ecosystems, economies, and societies. As we delve into the complexities of addressing these challenges, it's essential to thoroughly examine the various dimensions and implications involved.</p> <p>(a) Create 'What' canvas of 4Ws problem. (b) Create 'Why' canvas of 4Ws problem. (c) Create 'Who' canvas of 4Ws problem. (d) Create 'Where' canvas of 4Ws problem.</p>	(4)									
Q.18	<p>What do you mean by bag of words in NLP? Differentiate between stemming and lemmatization. Explain with the help of an example.</p>	(4)									
Q.19	<p>Calculate accuracy, precision, recall and F1 score for the following Confusion Matrix. Suggest which metric would not be a good evaluation parameter and why?</p> <table border="1"><thead><tr><th></th><th>Reality(T)</th><th>Reality(F)</th></tr></thead><tbody><tr><th>Prediction(T)</th><td>32</td><td>22</td></tr><tr><th>Prediction(F)</th><td>57</td><td>28</td></tr></tbody></table>		Reality(T)	Reality(F)	Prediction(T)	32	22	Prediction(F)	57	28	(4)
	Reality(T)	Reality(F)									
Prediction(T)	32	22									
Prediction(F)	57	28									
Q.20	<p>Imagine that you have come up with an AI based prediction model which has been deployed on the roads to check traffic jams. Now, the objective of the model is to predict whether there will be a traffic jam or not. Now, to understand the efficiency of this model, we need to check if the predictions which it makes are correct or not. Thus, there exist two conditions which we need to ponder upon: Prediction and Reality.</p> <p>Traffic Jams have become a common part of our lives nowadays. Living in an urban area means you have to face traffic each and every time you get out on the road. Mostly, school students opt for buses to go to school. Many times, the bus gets late due to such jams and the students are not able to reach their school on time.</p> <p>Considering all the possible situations make a Confusion Matrix for the above situation with proper explanation.</p>	(4)									
Q.21	<p>AI has not only made our lives easier but has also been taking care of our habits, likes, and dislikes. This is why platforms like Netflix, Amazon, Spotify, YouTube etc. show us recommendations based on what we like. The recommendations are not just limited to our preferences, they even cater to our needs of connecting with friends on social media platforms with apps like Facebook and Instagram. They also send us customized notifications about our online shopping details, auto-create playlists according to our requests and so on. Taking selfies was never this fun as Snapchat filters make them look so cool.</p> <p>(a) AI makes our work easier. Apart from this which are the area taken care now a days by AI? (b) What are the platforms using AI? (c) How social media uses AI? (d) Which are other areas except preferences on which social media platforms shows recommendations?</p>	(4)									



# Delhi Public School, Howrah

PRE BOARD II EXAMINATION (2024-2025)

Class – X

Care must be taken not to write anything on the question paper. All the questions must be attempted in the correct sequence.

SUBJECT: INFORMATION TECHNOLOGY (SUBJECT CODE 402)

THEORY EXAMINATION

Time Allowed: -2 Hours

F.M.-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 of the following type of communication involves interchanging messages only through images or pictures? a. Verbal    b. Gesture    c. Visual    d. Facial	(1)
ii.	High expectations from self can leave one with chronic anxiety and stress, thus leading to _____ stress. a. Physical    b. Emotional    c. Mental    d. Financial	(1)
iii.	A computer automatically runs a basic program called _____ as soon as it is switched on or off. a. BIOS (Basic Input /Output System)    b. 105 (Input/Output System) c. BOSS (Basic on System Startup)    d. PoS (Power on System)	(1)
iv.	_____ is a horizontal bar present at the bottom of the Windows 7 desktop. a. Status bar    b. Menu bar    c. Task bar    d. Recycle bin	(1)
v.	_____ refers to focusing human efforts for maintaining a healthy body and mind capable of better withstanding stressful situations. a. Self-motivation    b. Stress management    c. Self-awareness    d. Self-regulation	(1)

vi.	Which of the following types of feedback provides detailed and particular statement? a. Non-specific feedback b. Written feedback c. Oral feedback d. Specific feedback	(1)
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<b>Q. 2</b>	<b>Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)</b>	
i.	Jagriti has inserted an image in a document. She wants to resize the image. Which option of the word processor image format should be used to let the two dimensions (height and width) change so that the proportion is maintained? (a) Dragging (b) Crop (c) Keep aspect (d) Contrast	(1)
ii.	Sahil and his partners have created a list of their company employees in one of the spreadsheets in the office. Now they want to complete rest of the task from home. Which option should they use to access the same Spreadsheet from home? (a) Consolidated Worksheet. (b) Link Worksheet. (c) Merge Worksheet. (d) Lock Worksheet	(1)
iii.	_____ feature of Calc helps to track what data was changed, when the change was made, who made the change and in which cell the change has occurred. (a) Record (b) Edit record (c) Change record (d) Macro	(1)
iv.	A table is a set of data elements that is organized using a model of vertical _____ and horizontal _____. (a) rows, tables (b) columns, rows (c) rows, columns (d) forms, reports	(1)
v.	_____ is an unplanned event that may happen all of a sudden and may lead to unwanted or unprecedented results/outcomes. (a) Emergency (b) Hazard (c) Accident (d) Illness	(1)
vi.	The cell reference in a spreadsheet for cell range B2 to F15 is _____. (a) B2.F15 (b) B2;F15 (c) B2:F15 (d) B2-F15	(1)

<b>Q. 3</b>	<b>Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)</b>	
i.	Kawal and his friends are working on a Spreadsheet for entering data and updating records. They wish to keep a track of changes. Which of the following options will help in knowing who made the changes and what changes were done in the spreadsheet? a. View changes b. Store changes c. Record changes d. Track changes	(1)
ii.	A _____ refers to a cell or a range of cells on a worksheet whose data values can be used in a formula. a. sheet b. cell c. cell reference d. cell data	(1)
iii.	Which of the following is a more elaborate form of Goal Seek? a. Subtotal b. Scenario c. Solver d. Consolidate	(1)
iv.	By default, sheets tab are present at the _____ of the spreadsheet. a. top b. bottom c. centre d. right	(1)
v.	Styles help to improve consistency in a document. Identify the style that is used to format graphic and text frames, including wrapping type, borders, backgrounds and columns. a. Numbering b. Graphics c. Character d. Frame	(1)
vi.	_____ controls all aspects of a paragraph's appearance, such as text alignment, tab stops, line spacing, and borders, and can include character formatting. a. Page Style b. Cell Style c. Character Style d. Paragraph Style	(1)



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

Q.11	Write the main steps to group drawing objects in writer.	(2)
Q.12	Ronita is a content editor; she often works with Calc software .She wants to add some comments to a Calc cell. How can she add comments to a spreadsheet cell?	(2)
Q.13	What is required before merging spreadsheets?	(2)
Q.14	How can forms and reports be used together in a database?	(2)
Q.15	State the most important reasons for health, safety and security programs in workplace.	(2)
Q.16	Shivam is the security in-charge in his office where he is responsible for maintaining security in the office and keep a check on the untoward accidents that may cause during daily functioning of the workflow. Give a list of any four such types of accidents.	(2)

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

Q.17	A graduate student is preparing a thesis and needs to ensure proper formatting. The student uses the Table of Contents (ToC) to organize chapters, sections, and subsections. a) How can a Table of Contents assist in organizing a thesis? b) What are the steps to create a Table of Contents in LibreOffice Writer? c) How can you modify the Table of Contents format after it's created? d) How can you delete a Table of Contents in the document?	(4)
Q.18	A scientist is working on a dataset containing experimental results. They need a macro to sort values in ascending order, remove outliers, and calculate the mean for each dataset. a) How does a macro recorder help in simplifying such tasks? b) Can the macro be written to dynamically handle datasets of different sizes? Explain. c) How can macros access specific cells directly? Provide an example. d) Why should macros be organized effectively in such projects?	(4)
Q.19	A retail store needs a system to manage inventory and sales data. The store wants to create forms for adding new products, updating stock levels, and tracking daily sales. Reports will be used to analyze sales trends and inventory movement. a) What is the purpose of forms in a database? b) How can a form be created using the Form Wizard? c) Which toolbar allows adding and customizing controls in forms? d) How are reports useful for tracking sales?	(4)
Q.20	A hotel uses a database to manage room bookings and customer details. Queries are required to identify vacant rooms, list customers staying for over seven days, and calculate daily revenue. a) How can a query retrieve information about vacant rooms? b) What are the steps to create a query using the wizard? c) Why is editing a query useful for changing criteria? d) How can numerical data in bookings be used in queries?	(4)
Q.21	How do you ensure effective evacuation during workplace emergencies?	(4)