



Delhi Public School, Howrah

PERIODIC ASSESSMENT III (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.

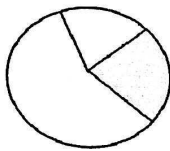
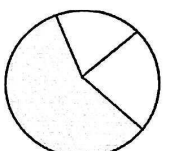
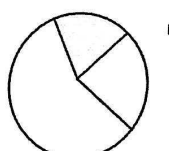
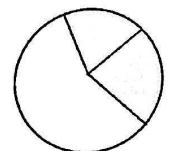
SECTION A: READING SKILLS (20 marks) Reading Comprehension Through Unseen Passages

1.	Read the following text:	10
(1)	<p>Vlogging has rapidly become one of the most captivating forms of digital media, drawing millions of viewers worldwide. People are turning to vlogs to share snapshots of their lives, inviting audiences into everything from their daily routines to exotic travels, fashion tips, and beyond. Each vlog offers a unique perspective, making it a dynamic and engaging way to connect and inspire others in real-time. While there are earlier accounts, vlog was first known by people around 2004, and with the launch of YouTube, the world's biggest UGC (User-Generated Content) video-sharing platform, vlog started to show explosive growth in popularity. Also, the popularization of mobile phones and the advanced technology of phone cameras made vlogging easier for people and accelerated the development of the vlog industry.</p>	
(2)	<p>Vlogging is a grand "window" in the era of short videos, and it is no longer limited to showcasing people's life stories but big businesses, too. Vlogs' popularity and their power to draw in audiences make them an attractive option for marketers to use for advertising. Not only does vlogging represent one of the most popular types of video content, but top vloggers offer unique advertising opportunities.</p>	
(3)	<p>The youngsters, who happen to form the biggest crowd in the audience, find the lifestyle videos most fascinating. One of the greatest things about lifestyle video blogging is that there is usually no script and everything that happens is real. Young people find it extremely interesting when they watch how other people live and it may influence their future decisions and careers. For example, watching some Vlogs by university students can help high school students to work harder to get into college.</p>	
(4)	<p>While analyzing all the successful vlogs, it is easy to discover that they all share something in common in terms of story-telling techniques. One of these techniques is a Point-of-view shot. A Point-of-view shot is a film angle that is commonly used in vlog shooting. It offers a unique first-person experience for the audience to experience what the vloggers see and feel. From the lenses of the camera, the audience can almost smell and taste the food the vlogger is eating, they can hear and know what is going on around the vlogger. The advantage of a point-of-view shot is to make the audience feel they are experiencing the vlogger's life in person.</p>	
(5)	<p>Creating an immersive experience is another way to make people lose track of time enjoying their experiences. Media is naturally invasive and immersive, and so is a vlog. Vloggers achieve this effect by including details, even if some of them are minor, in the video. For example, there would be scenes like the alarm clock ringing, or the turning on the coffee maker. It is very naturally done, because the inchoate purpose of vlogging is to record everyday life. The vlogs, showing a complete day or event by thoroughly involving tiny details, help to immerse the audience into the video. Therefore, it creates a sense of authenticity that is really rare in today's video age.</p>	

	Answer the following questions, based on the passage above.	
i.	Which of the following statements is <i>not</i> true about vlogs? A. Vlogs are used to showcase the business interest of the markets B. Vlogs form a fraction of the User-Generated Content C. Vlogs fail to produce original content for an immersive experience D. Vlogs are popular for their sensory appeal to the audience	1
ii.	Which of the following words from the passage can closely mean 'trespassing'? A. immersive B. inchoate C. invasive D. explosive	1
iii.	Choose the correct option to complete the given sentence: The point-of-view angle has become a trending technique for shooting a vlog because _____ A. it helps the vlogger to get a wider angle of the content he intends to capture. B. it helps to viewer to form a better judgement of the content. C. it helps the vlogger create longer content for the sake of viewership. D. it helps the viewer to relate themselves to the content and create a genuine experience.	1
iv.	The primary objective of the passage is to: A. locate the inception of the vlog B. explain the importance of tiny details in a vlog C. elaborate on the status of vlogging in modern lives D. explain the process the vlogging	1
v.	Complete the analogy: University life: Lifestyle vlog Choosing costumes for Annual Day Drama: _____	1
vi.	State the factor that led to the explosive growth in the popularity of vlogs.	1
vii.	Why does the passage use the word 'window' in praise of vlogging? Explain the concept as expressed, in your own words.	2
viii.	According to the passage, youngsters constitute the maximum viewership in the vlog industry. List some of the reasons as to why this is the reality.	2
2.	Read the following text:	10
(1)	Despite the global push to reduce plastic waste, the plastic industry is booming, fueled by an ever-growing demand and advances in petrochemical technology. Due to the enormous potential of the Indian market, local businesses have been encouraged to develop their technical skills, meet high-quality requirements, and expand their capabilities across a wide range of sectors of the growing plastics industry.	
(2)	There have been phenomenal advancements in the petrochemical industry, and combined with the progress in the plastic machinery sector, they have helped the plastic processing industry immensely. This has made it easier for plastic processors to increase their capacity to serve both the domestic and international markets. Currently, the Indian plastic processing industry comprises approximately 30,000 units that use different techniques to create a wide range of products. Plastic material is becoming increasingly important across various industries, and per capita consumption is rising quickly.	
(3)	The consumption of plastics in India has significant regional variation, with Western India accounting for 47%, Northern India for 23%, and Southern India for 21%. The end-use sectors of automotive, packaging (including bulk packaging), plastics applications, electronic appliances, etc., account for the majority of consumption in Northern India and are located mostly in Uttar Pradesh and Delhi-NCR. However, other regions, including Rajasthan, Punjab, Haryana, Uttarakhand, J&K, and Himachal Pradesh, are anticipated to see growth in plastic processing due to increasing feedstock supply and a greater focus on the manufacturing sector.	

(4)	The use of plasticulture (using plastics in agricultural applications) can significantly reduce costs, which can result in increased crop quality and yield. Applications of plasticulture provide advantages in terms of water conservation. Each application can significantly reduce water use by 30% to 100%. The total loss of water due to seepage may be reduced to zero in the case of agricultural ponds walled with plastic film, which is very advantageous.	
(5)	The plastic industry has been voraciously integrating much of the renewed focus on the preservation of the environment. Under the Pradhan Mantri Gram Sadak Yojana (PMGSY), the Government of India has been using plastics for road construction. The Asian Development Bank (ADB), in support of PMGSY, has already sanctioned loans worth US\$ 2.31 billion to construct over 22,000 km of all-weather roads in Assam, Chhattisgarh, Madhya Pradesh, Odisha, and West Bengal. The use of plastics significantly improves the quality of these roads and provides better, durable all-weather roads. As of January 2019, under PMGSY, 46.1% of the roads constructed were using waste plastics.	
(6)	The plastics industry is currently home to about 50,000 industries, most of which are micro, small, and medium-sized enterprises (MSMEs). These enterprises contribute Rs. 3.5 lakh crore (US\$ 42.89 billion) to India's economy and employ more than 50,000 people. The country recycles plastic at a rate of 60%, which is higher than that of developed nations. The "Make in India," "Skill India," "Swachh Bharat," and "Digital India" initiatives of the government are increasing plastic production, and by 2027, it is expected that the plastics industry will generate Rs. 10 lakh billion (US\$ 122.54 billion) annual revenue, with two lakh tonnes of exports.	
Answer the following questions, based on the passage above.		
i.	Despite many awareness campaigns on the 'plastic threat' what makes the plastic industry still thriving in the country? A. The awareness campaigns did highlight the threats properly B. Market potential prevailed over the need for conservation C. India as a country is not ready to embrace only organic alternatives D. The government is investing more in the petrochemical industry	1
ii.	Which of the following set of antonyms is the odd one out? A. employ: release B. durable: fragile C. anticipated: expected D. generate: halt	1
iii.	Choose the option that has the correct application of the word 'yield' as used in the passage: A. The army was forced to yield the territory after days of intense fighting. B. The wheat must be yield in winter. C. The land yields grapes and tomatoes. D. The hotel yields a stunning view of the mountains from every room.	1
iv.	Which of the following initiatives aims for technical training for all people? A. Make in India B. Swachh Bharat C. Digital India D. Skill India	1
v.	Choose the correct option: Assertion (A): Per-capita consumption of plastic is increasing across various industries Reason (R): The plastic processors have an increasing capacity to serve both domestic and international markets. A. (A) is true but (R) is not the correct explanation of (A). B. Both (A) and (R) are false. C. (A) is true and (R) correctly explains (A). D. (A) is false but (R) is true.	1
Page 3 of 9		

vi. Which of the following pie-charts shows the consumption of plastics in Southern India? 1

A.  B.  C.  D. 

vii. Pradhan Mantri Gram Sadak Yojana is an example of smart policy. Throw light on the 'smart' components as you can infer from the passage. 2

viii. From your understanding of the given context, explain how absolute shunning of plastics can adversely impact the economy of the country. 2

3. GRAMMAR 10

Complete any ten as directed.

i. Read the conversation between the Chief Guest and a student. Complete the sentence by reporting the reply correctly. 1

Chief guest: Who inspired you to learn classical dance?
 Student: I was inspired by my grandmother who was a renowned dancer.
 The Chief Guest asked the student who had inspired him to learn classical dance.
 The student replied _____

ii. Fill in the blank by choosing the correct option to complete this advertisement. 1

Are you looking for more books to read? Due to popular demand, we _____ back our 'Buy One Get One Free' offer this weekend!

A. brings
 B. brought
 C. have brought
 D. were bringing

iii. Choose the correct option to complete the following announcement on the notice board: 1

Important!

The upcoming Science Fair has been postponed. The date will be announced after the Holiday. _____ (That/These/This) should be communicated to all students in classes VIII-XII

iv. Identify the error in the given sentence, from a school magazine report and supply the correction. 1

In order to balancing the sentiments of the Eagles and the Hawks, the Student Council suggested a rematch between the teams.

Error	Correction

v. Fill in the blank by choosing the correct option to complete this advertisement. 1


The by-laws of some residential associations and management that _____ owners and tenants from keeping pets in their apartments, are justified.

A. has banned
 B. ban
 C. will ban
 D. banned

vi.	<p>Read the conversation between the Biology teacher and Sameer, and report Sameer's reply. Biology Teacher: I instructed you to draw a diagram of bacteria. Why did you submit a blank sheet? Sameer: Sir, I had drawn the diagram of bacteria, but you cannot see it because it is not visible to the naked eye.</p>	1															
vii.	<p>Fill in the blank by choosing the correct option. After many months of tiring research, the scientists finally _____ the invisible barrier. A. break down B. broke out C. broke in D. broke through</p>	1															
viii.	<p>Fill in the blank with the correct modal to complete the line spoken in a debate. Shakespeare and Voltaire were not alive at the same time, so they _____ have known each other.</p>	1															
ix	<p>Select the option that identifies the error in a museum plaque and supplies the correction for the same.</p> <div style="border: 1px solid black; border-radius: 15px; padding: 10px; width: fit-content; margin: 10px auto;"> <p>These building, inaugurated on 29 March 1954, was a former residence of a Maharaja.</p> </div> <table border="1" style="margin: 10px auto; border-collapse: collapse;"> <thead> <tr> <th style="padding: 2px;">Option No.</th> <th style="padding: 2px;">Error</th> <th style="padding: 2px;">Correction</th> </tr> </thead> <tbody> <tr> <td style="padding: 2px;">A.</td> <td style="padding: 2px;">building</td> <td style="padding: 2px;">buildings</td> </tr> <tr> <td style="padding: 2px;">B.</td> <td style="padding: 2px;">in</td> <td style="padding: 2px;">on</td> </tr> <tr> <td style="padding: 2px;">C.</td> <td style="padding: 2px;">residence</td> <td style="padding: 2px;">residence</td> </tr> <tr> <td style="padding: 2px;">D.</td> <td style="padding: 2px;">These</td> <td style="padding: 2px;">This</td> </tr> </tbody> </table>	Option No.	Error	Correction	A.	building	buildings	B.	in	on	C.	residence	residence	D.	These	This	1
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A.	building	buildings															
B.	in	on															
C.	residence	residence															
D.	These	This															
x.	<p>Complete the cautionary note from the county office by choosing the correct option. A huge swarm of insects _____ spotted 500 meters away, farmers to take caution. A. Have B. Has been C. Has D. Have been</p>	1															
xi.	<p>Identify the error in the given sentence from a newspaper report and supply the correction. Ragging involves abuse, humiliation, or harassment of new entrants by the senior students. It often takes a malignant forms wherein the newcomers may be subjected to psychological or physical torture.</p> <table border="1" style="margin: 10px auto; border-collapse: collapse;"> <thead> <tr> <th style="padding: 2px;">Error</th> <th style="padding: 2px;">Correction</th> </tr> </thead> <tbody> <tr> <td style="padding: 2px;"> </td> <td style="padding: 2px;"> </td> </tr> </tbody> </table>	Error	Correction			1											
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xii.	<p>Fill in the blank with the suitable form of the word 'unemployed'. "How long can a person go without three meals a day?" This thought constantly comes to a person who has to wait till his _____ days are over.</p>	1															
WRITING		10															
4A.	<p>You are Ranjan/Ranjana of 40, Ramoji Nagar, Hyderabad. You purchased a microwave oven from Khanna Sales Corporation, but the item did not meet your expectations when used at home. Not only are the promised features missing, but the appliance's functionality is also compromised. Write a letter, in 100-120 words, to the manager of the showroom, complaining about the poor performance of the oven, mentioning the specific problem you are facing and the action you want. Give all the relevant details.</p>	5															
OR																	

- 4B. You saw an advertisement and decided to write an inquiry letter to the Head of the Institution, inquiring about the details of tuition, timing, charges, additional courses, faculties etc. You are Mukesh/ Mukti from MN Road, Durgapur, West Bengal. 5

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- 5A. Read the given set of rules displayed inside the community pool area: 5
-
- Do not engage in any conversation with the lifeguard as it may divert his attention.
 - Shower before and after swimming in the pool. Wear swimming attire, not regular clothes.
 - Do not use creams or lotions before entering the pool.
 - Instruct children to walk, not run around the swimming pool.
 - No children under age 14 should be left unaccompanied while they are in or outside the pool.
 - Put on a swimming cap if you have long hair.
 - Do not hang on to the safety rope or play with it.
 - Spitting and spouting water from the nose and mouth are against the rules.
-
- Analyse the details and write an analytical paragraph in about 120 words to justify this set of rules decided by the authority.




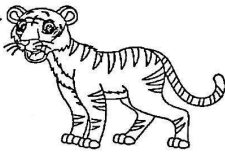
OR

- 5B. The table shows life expectancy at birth for males and females across states (1998-2006). Write an analytical paragraph in about 120 words to analyse the given data. 5

	1998-2002		1999-2003		2000-04		2001-05		2002-06	
	M	F	M	F	M	F	M	F	M	F
AndhraPradesh	62	64.6	62.2	64.8	62.4	65	62.7	65.2	62.9	65.5
Assam	57.7	58.1	57.8	58.3	58	58.6	58.3	59	58.6	59.3
Bihar	61.4	59.5	61.6	59.7	61.8	59.9	62	60.1	62.2	60.4
Gujarat	62.4	64.4	62.5	64.6	62.7	64.8	62.8	65	62.9	65.2
Haryana	64.7	65.4	65	65.6	65.3	65.8	65.6	66	65.9	66.3
Karnataka	62.8	66.2	62.9	66.4	63.1	66.7	63.4	66.9	63.6	67.1
Kerala	70.8	75.9	70.9	76	71	76.1	71.3	76.3	71.4	76.3
MadhyaPradesh	57	56.7	57.2	56.9	57.5	57.2	57.8	57.5	58.1	57.9
Maharashtra	65	67.4	65.2	67.6	65.5	67.8	65.8	68.1	66	68.4
Orissa	58.4	58.5	58.6	58.7	58.9	58.9	59.2	59.2	59.5	59.6
Punjab	67.4	69.5	67.6	69.6	67.8	69.8	68.1	70.1	68.4	70.4
Rajasthan	60.5	61.6	60.7	61.8	60.9	62	61.2	62.2	61.5	62.3
Tamil Nadu	64.2	66.3	64.3	66.5	64.6	66.8	64.8	67.1	65	67.4
Uttar Pradesh	59.4	58.5	59.6	58.7	59.9	59	60.1	59.3	60.3	59.5
West Bengal	63.3	64.8	63.5	65	63.7	65.2	63.9	65.5	64.1	65.8

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

6	Read the given extracts and answer ANY ONE of the given questions.	5
A.	<p>CHUBUKOV: [interrupting] My dear fellow... I'm so glad, and so on... Yes, indeed, and all that sort of thing. [Embraces and kisses Lomov] I've been hoping for it for a long time. It's been my continual desire. [Sheds a tear] And I've always loved you, my angel, as if you were my own son. May God give you both — His help and His love and so on, and so much hope... What am I behaving in this idiotic way for? I'm off my balance with joy, absolutely off my balance! Oh, with all my soul... I'll go and call Natasha, and all that.</p> <p>LOMOV: [greatly moved] Honoured Stepan Stepanovitch, do you think I may count on her consent?</p> <p>CHUBUKOV: Why, of course, my darling, and... as if she won't consent! She's in love; egad, she's like a lovesick cat, and so on. Shan't be long! [Exit.]</p> <p align="right">-The Proposal</p>	1
i.	<p>In the line, "She's in love; egad, she's like a lovesick cat," the tone Chubukov is using can best be described as:</p> <p>A. Formal and Respectful B. Uneasy but Managing C. Joking and Casual D. Concerned but Certain</p>	1
ii.	<p>Complete the following analogy by selecting the suitable word from the extract. Silly: idiotic :: Concord: _____</p>	1
iii.	<p>Select an option that best explains Chubukov's reaction to Lomov's marriage proposal.</p> <p>A. The playwright wanted to capture the essence of 'the proposal' through his reaction. B. Natalya has been in love with Lomov and wanted to marry him. C. The reaction is exaggerated and adds to the comic farce of the play. D. Chubukov's affection for Lomov was too great, hence the delight.</p>	1
iv.	<p>If Lomov were to discover that Chubukov might never want him to marry his daughter, how might he react? Support your prediction based on his <i>personality traits</i> observed in the play.</p>	2
OR		
B.	<p>Very soon Mij would follow me without a lead and come to me when I called his name. He spent most of his time in play. He spent hours shuffling a rubber ball round the room like a four-footed soccer player using all four feet to dribble the ball, and he could also throw it, with a powerful flick of the neck, to a surprising height and distance.</p> <p align="right">- Mijbil the Otter</p>	
i.	<p>Select the option that correctly captures the usage of the word 'lead' from the extract.</p> <p>A. The latest research might <i>lead</i> us to a breakthrough in medicine. B. The puppy kept wandering off, so they decided to use a <i>lead</i> for better control. C. He was selected to <i>lead</i> the team in the upcoming competition. D. Pencils were originally made with <i>lead</i>, but now they use graphite instead.</p>	1
ii.	<p>What would Mij do with his favourite toys?</p>	2
iii.	<p>Explain the significance of Mijbil's comparison to 'a four-footed soccer player'</p>	2

7.	Read the given extracts and answer ANY ONE of the given questions.	5
A.	Belinda was as brave as a barrel full of bears, And Ink and Blink chased lions down the stairs, Mustard was as brave as a tiger in a rage, But Custard cried for a nice safe cage. <p style="text-align: right;">- The Tale of Custard the Dragon</p>	
i.	Which of the following options shows a similarity in the figure of speech used in the first line of the given extract? A. Because I could not stop for Death, He kindly stopped for me; The carriage held but just ourselves And Immortality. B. A spot for the splendid birth Of everlasting lives, Whereto no night arrives; And this gaunt gray gallery A tabernacle of worth C. "Hope" is the thing with feathers – That perches in the soul – And sings the tune without the words – And never stops – at all – D. The river moves in gentle waves, Its surface glistening, the waters deep. Beneath, the quiet fish drift by, As evening veils, calm and still.	1
ii.	Which of the following images can be related to the <i>real</i> nature of Mustard? A.  B.  C.  D. 	1
iii.	The poem, being a humorous ballad is similar to a _____	1
iv.	Negate the assumption about Custard being cowardly as perceived by his fellow residents with suitable textual references.	2
OR		
B.	All night the roots work to disengage themselves from the cracks in the veranda floor. The leaves strain toward the glass small twigs stiff with exertion long-cramped boughs shuffling under the roof like newly discharged patients half-dazed, moving to the clinic doors. <p style="text-align: right;">- The Trees</p>	
i.	Assuming, the forest in the passage represents a phase of transition in life. Which of the following would best symbolize the narrator's feeling about this transition? A. An artist painting a new canvas with vibrant colours B. A bird leaving its nest after years of comfort C. A person rearranging familiar furniture in a new room D. A scientist observing changes in a controlled experiment	1
ii.	Given below is a set of emotions; choose the correct option that reflects the dominant mood of the poem. 1- Detached 2- Vibrant 3- Melancholic 4- Energetic 5- Reflective	1

	A. Only Option 5 B. Options 1 and 4 C. Only Option 1 D. Options 3 and 5	
iii.	What figure of speech is used in the lines "like newly discharged patients /half-dazed, /moving to the clinic doors"?	1
iv.	Justify the poet's choice of the phrase 'long-cramped boughs' in the poem.	2
8.	Answer ANY FOUR of the following five questions in about 40-50 words:	4x3
i.	Explain the symbolism associated with the tiger in 'The Tiger in the Zoo'.	
ii.	"Watching the street gave her many new unusual experiences."- What fascinated Valli the most?	
iii.	Write the possible reasons behind Yeats' choice of the man being 'old' and 'religious' while preaching what the man found in the text.	
iv.	"Another aeroplane?"- Why was the woman in the control centre shocked?	
v.	Trace the significance of the 'sights' in Gautam Buddha's journey towards enlightenment.	
9.	Answer ANY TWO of the following three questions in about 40-50 words:	2x3
i.	What was Matilda's sense of 'success' at the ball?	
ii.	Discuss the power dynamics between Horace and the woman he met in the house at Shotover Grange during their interaction.	
iii.	Prove mighty Think-Tank as an unfit Ruler of Mars. Substantiate your answer with proper textual references.	
10.	Answer ANY ONE of the following two questions in about 100-120 words.	1x6
i.	Both 'Amanda' and 'From the Diary of Anne Frank' explore the inner worlds and desires of young girls constrained by their surroundings. How do both texts highlight the universal theme of the need for self-expression and personal space?	
OR		
ii.	In 'A Letter to God', the postmaster initially laughs at Lencho's naive faith but later takes action to help him. How does the postmaster's character reveal themes of empathy, generosity, and the complexities of faith? In what ways does his response to Lencho's letter reflect the impact of kindness and human connection, even when the results are misunderstood?	
11.	Answer ANY ONE of the following two questions in about 100-120 words.	1x6
i.	Imagine a lively conversation between James Herriot and Gavin Maxwell, where they share their insights on responsible pet ownership and the importance of animal welfare. Through their exchange, bring out their shared values and distinct perspectives. (Craft at least six sets of dialogue.)	
OR		
ii.	'The Book That Saved the Earth' exploits humour and irony to explore the power of literature and imagination in bridging cultures and preventing conflicts. Discuss how the story achieves this, using relevant examples to illustrate its unique approach to the themes.	



Delhi Public School, Howrah

PERIODIC ASSESSMENT – 3 (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 (Code No-041)

Time: 3 Hours

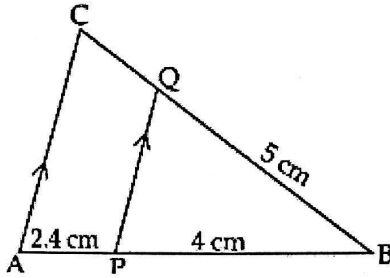
F.M. 80

General Instructions:

1. This Question Paper has 5 Sections A, B, C, D and E.
2. Section A has 20 MCQs carrying 1 mark each.
3. Section B has 5 questions carrying 02 marks each.
4. Section C has 6 questions carrying 03 marks each.
5. Section D has 4 questions carrying 05 marks each.
6. Section E has 3 case based integrated units of assessment (04 marks each) with sub-parts of the values of 1, 1 and 2 marks each respectively.
7. All Questions are compulsory. However, an internal choice in 2 Qs of 5 marks, 2 Qs of 3 marks and 2 Questions of 2 marks has been provided. An internal choice has been provided in the 2marks questions of Section E.
8. Draw neat figures wherever required. Take $\pi = 22/7$ wherever required if not stated.

SECTION A		
Section A consists of 20 questions of 1 mark each.		
1.	Priyanshu has a motor cycle with wheels of diameter 91 cm. There are 22 spokes in the wheel. The length of arc between two adjoining spokes is (a) 26 cm (b) 13 cm (c) 15 cm (d) 18 cm	1
2.	Identify which of the following cannot be the graph of a quadratic polynomial? <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> (a) </div> <div style="text-align: center;"> (b) </div> </div> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> (c) </div> <div style="text-align: center;"> (d) </div> </div>	1
3.	The pair of equations $x = a$ and $y = b$ graphically represents lines which are: (a) Parallel (b) Intersecting at (b, a) (c) Coincident (d) Intersecting at (a, b)	1
4.	Write the nature of roots of the quadratic equation $9x^2 - 6x - 2 = 0$. (a) No real roots (b) 2 equal real roots (c) 2 distinct real roots (d) More than 2 real roots	1
5.	The common difference of the AP $\frac{1}{p}, \frac{1-p}{p}, \frac{1-2p}{p}, \dots$ is (a) 1 (b) $\frac{1}{p}$ (c) -1 (d) $-\frac{1}{p}$	1
6.	The ratio in which x-axis divides the join of $(2, -3)$ and $(5, 6)$ is: (a) 1 : 2 (b) 3 : 4 (c) 1 : 3 (d) 1 : 5	1

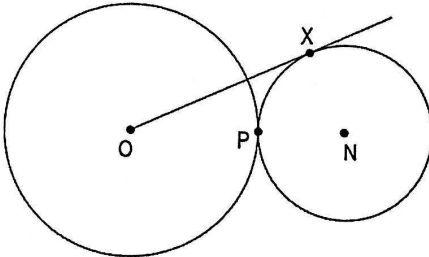
In the given figure, $PQ \parallel AC$. If $BP = 4$ cm, $AP = 2.4$ cm and $BQ = 5$ cm, then length of BC is:



7.

- (a) 8 cm (b) 3 cm (c) 0.3 cm (d) $\frac{25}{3}$ cm

Two circles with centres O and N touch each other at point P as shown. O , P and N are collinear. The radius of the circle with centre O is twice that of the circle with centre N . OX is a tangent to the circle with centre N , and $OX = 18$ cm.



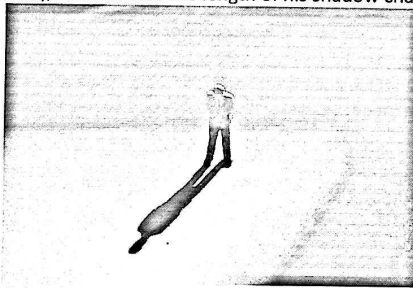
8.

(Note: The figure is not to scale.)

What is the radius of the circle with centre N ?

- (a) $\frac{18}{\sqrt{2}}$ cm (b) 9 cm (c) $\frac{9}{\sqrt{2}}$ cm (d) $\frac{18}{\sqrt{10}}$ cm

A man while walking on a hot day, noticed how the length of his shadow changes with the sun's altitude.



9.

If the height and the length of the shadow of a man are the same at a particular instant of time, then the angle of elevation of the sun is:

- (a) 45° (b) 60° (c) 90° (d) 120°

10.

The 21st term of an A.P. whose first two terms are -3 and 4 , is:

- (a) 17 (b) 137 (c) 143 (d) -143

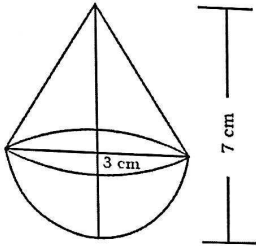
Based on the following distribution, the lower limit of the modal class is:

Class	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25
Frequency	10	15	12	20	9

11.

- (a) 15 (b) 25 (c) 30 (d) 35

If the common radius of cone and hemisphere is 3 cm and the height of the entire solid is 7 cm, the surface area of the following figure is:



12.

- (a) $20\pi \text{ cm}^2$ (b) $33\pi \text{ cm}^2$ (c) $18\pi \text{ cm}^2$ (d) $17\pi \text{ cm}^2$

1

13.

If $\cos A = \frac{4}{5}$ then the value of $\tan A$ is:

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

1

14.

The area of the circle that can be inscribed in a square of side 6 cm is:

- (a) $36\pi \text{ cm}^2$ (b) $18\pi \text{ cm}^2$ (c) $12\pi \text{ cm}^2$ (d) $9\pi \text{ cm}^2$

1

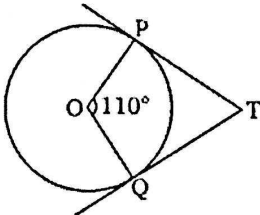
15.

If $x \tan 60^\circ \cos 60^\circ = \sin 60^\circ \cot 60^\circ$, then $x =$

- (a) $\cos 30^\circ$ (b) $\tan 30^\circ$ (c) $\sin 30^\circ$ (d) $\cot 30^\circ$

1

16.



In figure, if TP and TQ are the two tangents to a circle with centre O so that $\angle POQ = 110^\circ$, then $\angle PTQ$ is equal to

- (a) 60° (b) 70° (c) 80° (d) 90°

1

17.

Which of the following statements is **not** true?

- (a) Every composite number can be expressed as a product of primes.
 (b) Let x be a composite number. If x divides a^2 , then x divides a , where a is a positive integer.
 (c) For any two positive integers, product of their HCF and LCM is equal to the product of the integers.
 (d) $\sqrt{25}$ is not an irrational number.

1

18.

If $2\sin^2\beta - \cos^2\beta = 2$, then β is:

- (a) 0° (b) 90° (c) 45° (d) 30°

1

19.

In the questions 19 and 20, a statement of Assertion is followed by a statement of Reason. Mark the correct choice as:

- (a) Both Assertion and Reason are true and Reason is the correct explanation of Assertion.
 (b) Both Assertion and Reason are true but Reason is not the correct explanation of Assertion.
 (c) Assertion is true but Reason is false.
 (d) Assertion is false but Reason is true.

1

Assertion: Cards numbered 5 to 102 are placed in a box. If a card is selected at random from the box, then the probability that the card selected has a number which is a perfect square, is $\frac{4}{49}$.

Reason: Probability of an event E is a number $P(E)$ such that $0 \leq P(E) \leq 1$.

20.

Assertion: The coordinates of the centroid of a triangle whose vertices are (0, 6), (8, 12) and (8, 0) are $(\frac{17}{3}, 5)$.

Reason: Coordinates of the centroid of a triangle whose vertices are (x_1, y_1) , (x_2, y_2) and (x_3, y_3) are $(\frac{x_1+x_2+x_3}{3}, \frac{y_1+y_2+y_3}{3})$.

1

SECTION B

Section B consists of 5 questions of 2 marks each.

21(a). If α and β are the roots of the quadratic equation $x^2 - 7x + 10 = 0$, find the quadratic equation whose roots are $\frac{1}{\alpha}$ and $\frac{1}{\beta}$.

OR

21(b). Find the discriminant of the quadratic equation $3x^2 - 4\sqrt{3}x + 4 = 0$ and hence find the nature of the roots.

22. 144 cartons of Coke cans and 90 cartons of Pepsi cans are to be stacked in a canteen. If each stack is of the same height and if it contains equal number of cartons of the same drink, what would be the greatest number of cartons each stack would have?

23(a). If $1 + \sin^2\theta = 3 \sin\theta \cos\theta$, then prove that $\tan\theta = 1$ or $\frac{1}{2}$.

OR

23(b). Find the value of $\frac{5\cos^2 60^\circ + 4\sec^2 30^\circ - \tan^2 45^\circ}{\sin^2 30^\circ + \cos^2 30^\circ}$

24. If $49x + 51y = 499$ and $51x + 49y = 501$, then find the values of x and y .

25. The length of the minute hand of a clock is 14 cm. Find the area swept by the minute hand in 5 minutes.

SECTION C

Section C consists of 6 questions of 3 marks each.

26(a). A man repays a loan of ₹ 3250 by paying ₹ 20 in the first month and then increases the payment by ₹ 15 every month. How long will it take him to clear the loan?

OR

26(b). Find the term which will be 770 more than its 98th term of an AP: $-1, -18.5, -36, -53.5, \dots$

27. Prove that: $\frac{\tan^3\theta}{1+\tan^2\theta} + \frac{\cot^3\theta}{1+\cot^2\theta} = \sec\theta \operatorname{cosec}\theta - 2 \sin\theta \cos\theta$

28. Prove that $\sqrt{2}$ is an irrational number.

29. A boy 1.7 m tall is standing on a horizontal ground, 50 m away from a building. The angle of elevation of the top of the building from his eye is 60° . Calculate the height of the building. (Take $\sqrt{3} = 1.73$)

30(a). Places A and B are 100 km apart on a highway. One car starts from A and another from B at the same time. If the cars travel in the same direction at different speeds, they meet in 5 hours. If they travel towards each other, they meet in 1 hour. What are the speeds of the two cars?

OR

30(b). Solve the following system of linear equations graphically: $2x + y - 5 = 0$; $x + y - 3 = 0$.

31. Prove that if a line is drawn parallel to one side of a triangle to intersect the other two sides in distinct points, the other two sides are divided in the same ratio.

SECTION D

Section D consists of 4 questions of 5 marks each.

32. Sum of the areas of two squares is 157 m^2 . If the sum of their perimeters is 68 m, find the sides of the two squares.

33(a). Find the missing frequencies in the following frequency distribution table, if the total frequency is 100 and mode is $46\frac{2}{3}$.

Class	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
Frequency	5	8	7	x	28	20	10	y

OR

33(b). Find the Mean, Mode and Median age in years for the following frequency distribution.

Age in years	10 - 19	20 - 29	30 - 39	40 - 49	50 - 59	60 - 69
No. of persons	8	8	10	14	28	32

34(a).

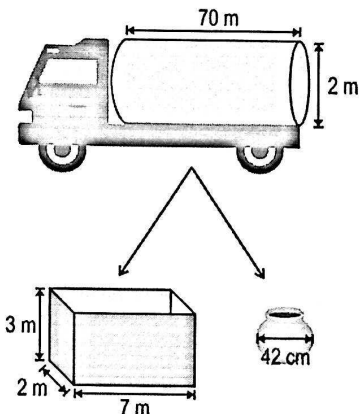
A tent is in the shape of a cylinder surmounted by a conical top. If the height and radius of the cylindrical part are 3 m and 14 m respectively, and the total height of the tent is 13.5 m, find the area of the canvas required for making the tent, keeping a provision of 26 m^2 of canvas for stitching and wastage. Also, find the cost of the canvas to be purchased at the rate of ₹ 500 per m^2 .

5

OR

A right-circular cylindrical water tanker supplies water to colonies on the outskirts of a city and to nearby villages. Each colony has a cuboidal water tank. In villages, people come with matkas (spherical clay pots) to fill water for their household.

34(b).



(Note: The figures are not to scale.)

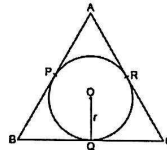
- (i) How many colonies in total would one full tanker be able to supply?
- (ii) If a tanker supplies water to 3 colonies and then goes to a village where 400 people fill their matkas, roughly how much water is supplied by the tanker in all? Give your answer in m^3 .

5

35.

In the following figure, the sides AB, BC and CA of triangle ABC touch a circle with centre O and radius r , at P, Q and R respectively. Prove that:

- (i) $AB + CQ = AC + BQ$
- (ii) $\text{Area}(\triangle ABC) = \frac{1}{2} (\text{perimeter of } \triangle ABC) \times r$



5

SECTION E

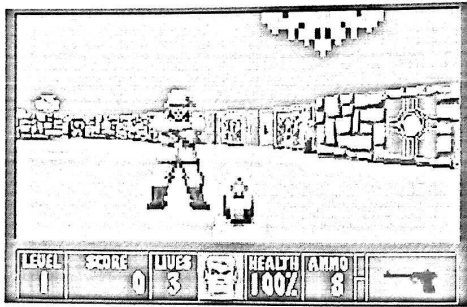
Section E consists of 3 questions of 4 marks each.

36.

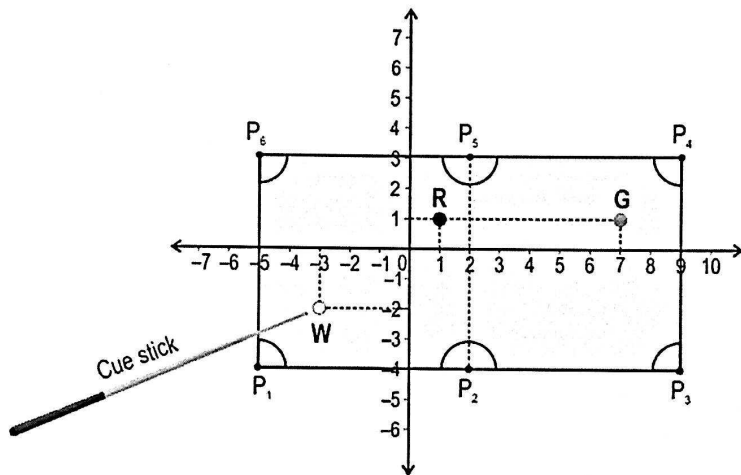
Case Study-1

Raycasting is a technique used in the creation of computer games. The basic idea of raycasting is as follows: the map is a 2D square grid. Using rays generated from an object, this 2D map can be transformed into a 3D perspective. One of the methods involves sending out a ray from the player's location. To determine how far he/she is from a wall or an obstacle, the distance between the player's coordinates and the coordinate of the wall is calculated. If the player is near the obstacle, it looks larger and vice-versa.

Shown below is a game, Wolf 3D, which was created using raycasting.



Riju wants to create an online snooker game using raycasting. The game in the creation stage on a coordinate map is shown below.



The snooker table has six pockets (P_1 , P_2 , P_3 , P_4 , P_5 and P_6) and he has shown three balls - white (W), red (R) and green (G) on the table. The objective of the game is to use the white ball to hit the coloured balls into the pockets using a cue stick.

On the basis of the above information, answer the following questions:

- | | |
|--|---|
| (a) How much distance will a ray travel if the ray is sent from the green ball to the nearest pocket? Show your work. | 1 |
| (b) Riju wants to place a yellow ball at the midpoint of the line connecting the white and green balls. Find the coordinates of the point at which he should place the yellow ball. Show your steps. | 1 |
| (c) Riju wants to hit a blue ball placed at $(-1, -3)$ into pocket P_5 along a straight path. Would the red ball lie on the straight path between the blue ball and P_5 ? Justify your answer. | 2 |

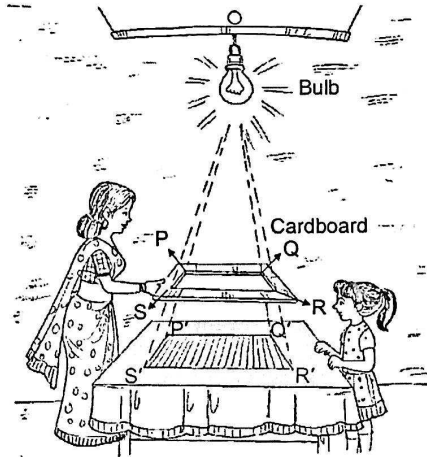
OR

- | | |
|--|---|
| (d) Riju is running a trial on his game. He struck the white ball in a way that it rebound off the rail (line connecting P_4 and P_6) and went into the pocket P_2 . | |
| <ul style="list-style-type: none"> ➤ After the rebound, the ball crossed the x-axis at point $X\left(\frac{2}{7}, 0\right)$ on the way to the pocket. ➤ The ratio of the distance between the rail and point X and the distance between point X and the pocket was 3 : 4. | 2 |

Find the coordinates of the point at which the ball struck the rail. Show your steps.

Case Study-2

Anjali placed a light bulb at a point O on the ceiling and placed a table directly below it. She cuts a polygon, say a quadrilateral PQRS, from a plane cardboard and place this cardboard parallel to the ground between the lighted bulb and the table. Then a shadow of PQRS is cast on the table as P'Q'R'S'. Quadrilateral P'Q'R'S' is an enlargement of the quadrilateral PQRS with scale factor 1 : 3. Given that PQ = 2.5 cm, QR = 3.5 cm, RS = 3.4 cm and PS = 3.1 cm; $\angle P = 115^\circ$, $\angle Q = 95^\circ$, $\angle R = 65^\circ$ and $\angle S = 85^\circ$.



37.

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

(a) Find the length of R'S'.

1

(b) Find the measurement of $\angle Q'$

1

(c) Find the ratio of sides P'Q' and Q'R'.

2

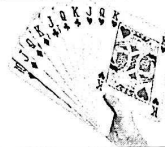
OR

(d) Find the sum of the lengths Q'R' and P'S'.

2

Case Study-3

Diposmita bought a deck of playing cards from a market out of curiosity. At home, she unwrapped them and, intrigued by their design, searched online to learn more. She discovered their suits, face cards, and history, sparking a newfound interest in card games and the stories they hold.



38.

(a) Now one card is drawn at random from the deck of 52 cards. Find the probability of getting a king of black colour.

1

(b) What is the probability of getting a jack of hearts if all Queens are removed from the deck?

1

(c) All face cards are removed from a well shuffled deck of 52 cards and the one card is drawn randomly from the remaining cards. Find the probability of getting an ace card.

2

OR

(d) Five cards – the ten, jack, queen, king and ace of diamonds are well-shuffled with their face downwards. One card is then picked up at random. If queen is drawn and put aside, what is the probability that the second card picked up is an ace?

2



Delhi Public School, Howrah

PERIODIC TEST III (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: - Science (Code No. 086)

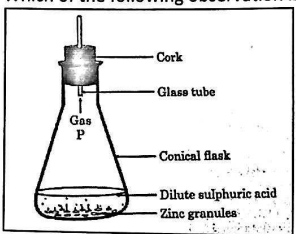
F.M.-80

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.	Sanket wants to write a balanced chemical equation for a chemical reaction. Help him choose the correct equation from the options given below. (a) $3\text{BaCl}_2 + \text{Al}_2(\text{SO}_4)_3 \rightarrow 3\text{BaSO}_4 + 2\text{AlCl}_3$ (b) $\text{BaCl}_2 + \text{Al}_2(\text{SO}_4)_3 \rightarrow \text{BaSO}_4 + 2\text{AlCl}_3$ (c) $3\text{BaCl}_2 + \text{Al}_2(\text{SO}_4)_3 \rightarrow 3\text{BaSO}_4 + \text{AlCl}_3$ (d) $\text{BaCl}_2 + \text{Al}_2(\text{SO}_4)_3 \rightarrow \text{BaSO}_4 + \text{AlCl}_3$	1
2.	When copper turnings are added to silver nitrate solution, a blue coloured solution is formed after some time. It is because copper: (I) displaces silver from the solution. (II) forms a blue coloured complex with AgNO_3 . (III) is oxidised to Cu^{2+} . (IV) is reduced to Cu^{2+} . Choose the correct option: (a) (I) and (II) (b) (II) and (III) (c) (I) and (III) (d) (II) and (IV)	1
3.	A sample of soil is mixed with water and allowed to settle. The clear supernatant solution turns methyl orange indicator red in colour. Which of the following would change the colour of methyl orange to yellow? (a) Lemon juice (b) Vinegar (c) Common salt (d) An antacid	1

4. Which of the following observation is demonstrated by the gas 'P' produced in the set up shown? 1

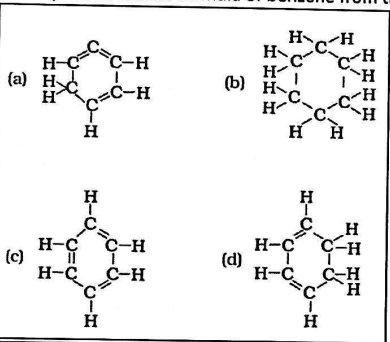


- (a) Lime water turns milky white.
- (b) Puts off a burning matchstick.
- (c) Burning matchstick produces a pop sound and the flame puts off.
- (d) Choking smell with the smell of burning sulphur.

5. How many covalent bonds are there in 2-Methylbutane? 1

- (a) 5 covalent bonds
- (b) 12 covalent bonds
- (c) 16 covalent bonds
- (d) 17 covalent bonds

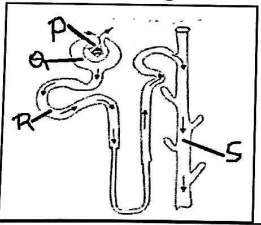
6. Identify the structural formula of benzene from the following. 1



7. If a few drops of a concentrated acid accidentally spills over the hand of a student, what should be done? 1

- (a) Wash the hand with saline solution.
- (b) Wash the hand immediately with plenty of water and apply a paste of sodium hydrogen carbonate.
- (c) After washing with plenty of water apply a solution of sodium hydroxide on the hand.
- (d) Neutralise the acid with a strong alkali.

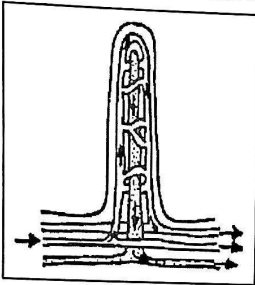
8. Given below is a diagram of a nephron. 1



Which of the following options correctly shows where filtration and selective reabsorption occur?

	FILTRATION	SELECTIVE REABSORPTION
(a)	P	Q
(b)	Q	Q
(c)	Q	S
(d)	P	R

9. The image given below shows cross-section of the small intestine.



What is likely to happen if the number of this structure increases in the intestine?

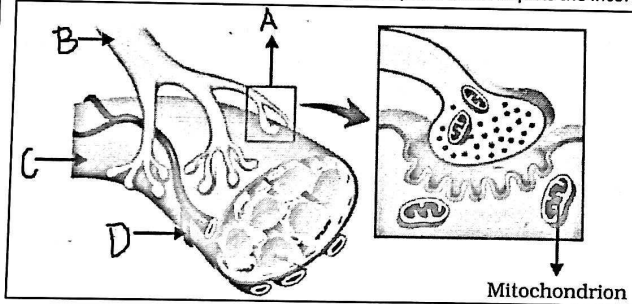
- (a) Increase in the rate of absorption of food.
- (b) Fast elimination of waste from the body.
- (c) Increase in flow of blood in the small intestine.
- (d) Fast breakdown of larger food particles into smaller ones.

10. Read the following statements.

- (I) X amount of carbon dioxide produced per molecule of glucose during aerobic respiration.
 - (II) Y amount of carbon dioxide produced per molecule of glucose during fermentation by yeast.
- Which of the following is TRUE about X and Y?

- (a) X is more than Y.
- (b) X is less than Y.
- (c) X is equal to Y.
- (d) Cannot be determined.

11. Look at the figure given below and identify the option which depicts the incorrect labelling.



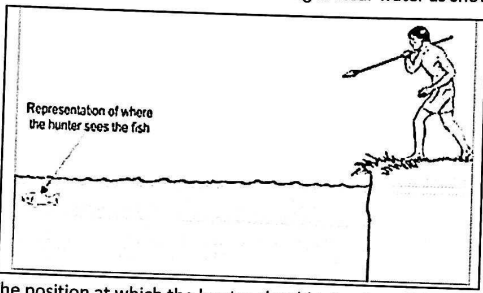
- (a) A-Neuromuscular junction
- (b) B-Axon
- (c) C- Muscle fibre
- (d) D-Dendrites

12. The rapid spreading of bread mould on slices of bread are due to:
 (i) Presence of large number of spores in air
 (ii) Presence of large number of thread-like branched hyphae
 (iii) Presence of moisture and nutrients
 (iv) Formation of round shaped sporangia
 (a) (i) and (iii)
 (b) (ii) and (iv)
 (c) (i) and (ii)
 (d) (iii) and (iv)

1

13. A hunter sees a fish which is swimming in clear water as shown in the figure below.

1

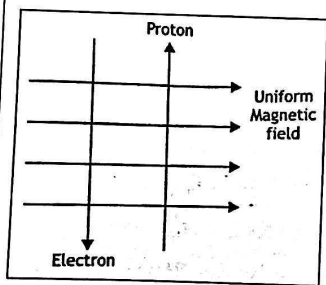


The position at which the hunter should take aim to hit the fish is-

- (a) exactly at the depth where the fish appears to be
- (b) a little below where the fish appears to be
- (c) a little above where the fish appears to be
- (d) at the fish's eye, exactly where it appears to be

14. A uniform magnetic field exists in the plane of paper pointing from left to right as shown in the figure below.

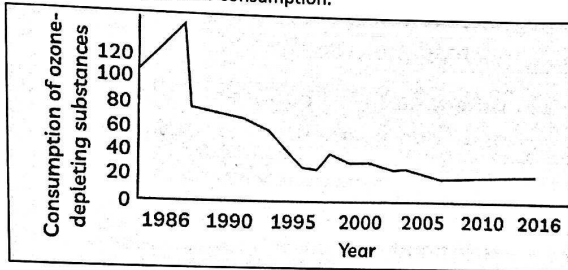
1



In the magnetic field an electron and a proton move as shown. The electron and the proton experience-

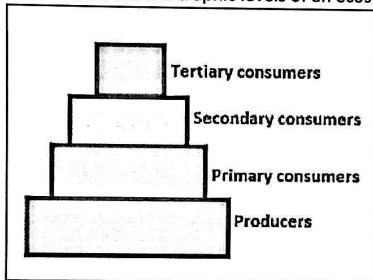
- (a) forces both pointing into the plane of paper.
- (b) forces both pointing out of the plane of paper.
- (c) forces pointing into the plane of paper and out of the plane of paper respectively.
- (d) forces pointing out of the plane of paper and into the plane of paper respectively.

15. In the following graph shown, the magnitude of global decline in consumption of ozone depleting substances (ODS) is shown. Study the graph and state during which period there is a sharp rise and a rapid decline seen in their consumption. 1



- (a) During 1986-87 and 2000-2005
 (b) During 1987-88 and 2016-2017
 (c) During 2000-2001 and 2010
 (d) During 1990-91 and 2016.

16. Shown below are the trophic levels of an ecosystem. 1



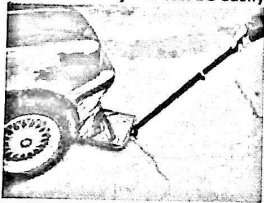
Choose the most suitable option for the trophic level/s where an omnivore can be present.

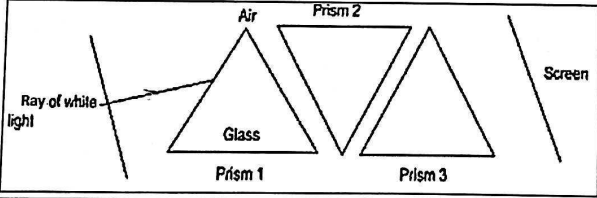
- (a) Secondary consumers.
 (b) Secondary and tertiary consumers.
 (c) Primary and secondary consumers.
 (d) Primary, secondary and tertiary consumers.

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): Hydrogen is not included in the activity series of metals. 1
 Reason (R): Like other metals, hydrogen can lose electrons to form positive ions.
18. Assertion (A): Colonies of yeast proliferate in a sugar solution. 1
 Reason (R): Sucrose, a component of sugar, serves as an energy source vital for sustaining life activities.
19. Assertion (A): The formula connecting u , v and f for a spherical mirror is valid in all situations for all spherical mirrors for all positions of the object. 1
 Reason (R): Laws of reflection are strictly valid for plane surfaces.

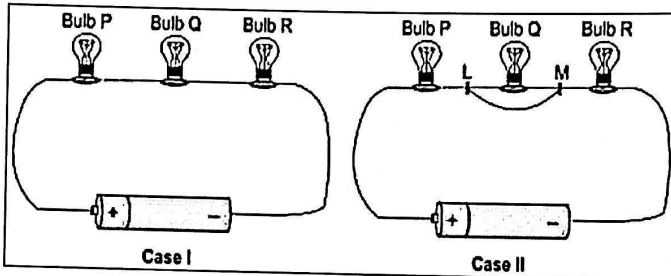
20.	<p>Assertion (A): Detritivores are neither part of food chains nor food webs. Reason (R): Detritivores primarily consume dead organic matter and are not directly involved in the interactions between predators and prey in a food web.</p>	1
<p>SECTION B Question No. 21 to 26 are very short answer questions</p>		
21.	Rajanya went to the market with her mother where she saw pickles kept in either glass or plastic jars and not in metal containers. She asked her mother why it is so. What could be the reason given by her mother?	2
22.	<p>Human organ systems work in coordination with each other. Pratik spent an hour in the swimming pool and found himself breathing heavily. (i) Analyze his condition and answer the following: (a) The organ system/s that help his body regain normalcy. (b) The organ system/s that help the system/s mentioned in (a) to function. (ii) What can happen to the components composition of Pratik's blood if the system/s mentioned in (a) does not respond properly?</p>	2
23.	<p>Attempt either option a or b. (a) i. How does the epiglottis ensure proper passage of air and food in to the respiratory system and digestive systems respectively? ii. "When we are injured and start bleeding, it requires the loss of blood to be minimized." What will happen if the blood loss is not stopped? What is the body's natural mechanism to prevent blood loss? OR (b) i. "Amount of urine produced generally decreases in summer as compared to other seasons if we do not keep ourselves hydrated." Justify this statement. ii. Explain why there is a difference in the breathing rate in terrestrial and aquatic organisms?</p>	2
24.	<p>Search mirrors are mirrors that are used to look for hidden objects underneath the cars as shown. The hidden objects can be easily spotted as the mirror provides a wider field of view.</p>  <p>(a) What type of mirrors are generally used to make search mirrors? (b) With the help of a ray diagram describe the nature of image formed by these type of mirrors.</p>	2
25.	<p>Attempt either option a or b. (a) Ananya responded to the question: Why do electrical appliances with metallic bodies are connected to the mains through a three-pin plug, whereas an electric bulb can be connected with a two-pin plug? She wrote: Three pin connections reduce heating of connecting wires. Is her answer correct or incorrect? Justify it. OR (b) State the law that explains the heating effect of current with respect to the measurable properties in an electrical circuit.</p>	2
26.	<p>The teacher gave some information about a food chain as follows: (I) Caterpillars are herbivorous larvae. (II) Mulberry leaves carry out the process of photosynthesis. (III) Frogs feed on the primary consumers.</p>	2

	(IV) Snakes eat the frogs. Answer the following questions based on the given information. (a) Draw a food chain based on the given information. (b) Most of the food chains in an ecosystem contains either three or four steps. i. What limits the number of trophic levels in a food chain? ii. What do the arrows in a food chain represents?	
SECTION C		
Q.no. 27 to 33 are short answer questions.		
27.	Adrika shifted to her new house and decided to get it white washed. She observed that the workers dissolved some white powdery material into water and the mixing resulted in a vigorous reaction and then they left it for some time. Then they applied the white suspension obtained to the walls. In the beginning, the wall looked pale white and watery but after two-three days, the walls become shiny and bright white in colour. Based on the given information, answer the following questions: (a) Name the white powdery substance and write its chemical reaction with water. (b) Is it an endothermic or exothermic reaction? (c) Why did the walls turn shiny and bright after two-three days?	3
28.	Attempt either option (a) or (b). (a) Ayush was asked by his Science teacher to identify some unknown compounds and answer the questions related to the same. His teacher provided an equation as shown below. In the given series of reaction, name the compounds X and Y <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">$\boxed{X} + \text{Alk. KMnO}_4 \xrightarrow{\Delta} \boxed{Y}$</div> (i) What kind of reaction is taking place when X is converted to Y? (ii) Write name and draw the structure of the next two homologues for compound X. <p style="text-align: center;">OR</p> (b) (i) How is ethene prepared from ethanol? Give the equation of the chemical reaction involved in it. (ii) Describe the role of the reagent used in this reaction.	3
29.	(a) Draw a diagram of human alimentary canal and label the parts with the following characteristics: i. muscular structure which expands when food enters it. ii. the lining of this structure has muscles that contract rhythmically. iii. shows excessive coiling. iv. releases enzymes that causes emulsification.	3
30.	In guinea pigs, having white fur (b) is a recessive trait to having black fur (B). When a pig with white fur was crossed with a pig having black fur, the number of offspring having white fur was equal to those having black fur. i. Give the genotype of the parents mentioned in the above situation. ii. Draw a Punnett square to show the cross mentioned in the above situation. iii. Draw a Punnett square to show the cross where all the offsprings will be black furred.	3
31.	Ayan passed a beam of white light through a series of equilateral prisms as shown in the figure below. 	3

- (a) What colour/colours will be seen on the screen?
 (b) Copy and complete the diagram given above showing how the light ray passes through all the prisms and finally falls on the screen.
 (c) Name all the processes that take place when the ray of light enters the Prism 1 and emerges from Prism 3.

32.

- (a) Sonam connects three bulbs P, Q and R in series with a battery in two different ways using identical conducting wires as shown below. She notices that in case I all three bulbs glow but in case II only the bulbs P and R continue to glow. What could be the reason for the bulb Q to not glow in case II? Explain.

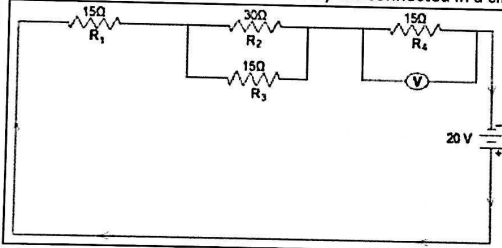


- (b) Two resistors, when connected in parallel give a combined resistance of $10/3$ ohms. When the same two resistors are connected in series, the combined resistance becomes 15 ohms. Calculate the individual resistance of each resistor.

- (c) Why are alloys commonly used in electrical heating devices? Give reason.

33.

- Four resistors, a voltmeter and a battery are connected in a circuit as shown below.



- (a) What is the net resistance in the circuit?
 (b) How much potential difference will the voltmeter connected across the resistor R_4 measure?

SECTION-D

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

34.

Attempt either option a or b.

- (a) i. What happens when sulphuric acid is added to eggshell (calcium carbonate)? Write the equation of the chemical reaction involved.
 ii. When magnesium metal is treated with a dilute solution of a strong acid, a gas is evolved, which is utilised to produce ghee from vegetable oil. Name the gas evolved. Write the chemical equation of the reaction involved in both of the reactions.

OR

- (b) i. How would you distinguish between baking soda and washing soda by heating? Write the chemical equation for each of the cases.

ii. A dry pellet of a common base B, when kept in the open absorbs moisture and turns sticky. The compound is also a by-product of the chloralkali process. Identify B. What type of reaction occurs when B is treated with an acidic oxide?

35.

Attempt either option a or b.

(a) i. Given below is a plant that is not grown from seeds. Mention the name and type of reproduction seen in the plant. List two advantages and disadvantages of using the method.



ii. Multicellular organisms use complex ways of reproduction but *Spirogyra*, a simple multicellular organism, multiplies by fragmentation. Give reason for the statement.

iii. Anjali put the pieces of potato having buds in soil in one pot. In another pot, she put the seeds of chillies. Every day she watched the plants and expected the plants in both the pots to come out at the same time. But the pot having pieces of potatoes grew faster than the pot with chillies' seeds. Why does this happen?

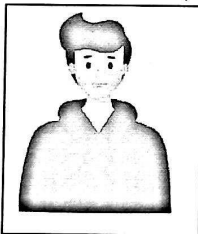
OR

(b) i. Bodies change as one becomes older. All of these are changes that can be grouped under the general process of growth, in which the body becomes larger. But in early teenage years, a whole new set of changes occurs that cannot be explained simply as body enlargement. Some of these changes are common to both boys and girls. There are also changes taking place that are different in boys and girls. Mention two changes that are similar and two changes that are different in boys and girls.

ii. Given below are three images of boys belonging to different age group. Which individual is likely to have more secretion of the hormone responsible for the changes seen during puberty? Give reason for your answer. Also name the hormone responsible for it.



A



B



C

iii. Human female reproductive system is more complex than in males. Explain.

36.

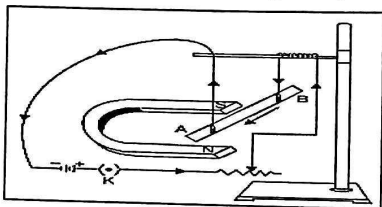
Attempt either option a or b.

(a) As shown in the diagram an aluminium rod 'AB' is suspended horizontally between the two poles of a strong horse shoe magnet in such a way that the axis of the rod is horizontal and the direction of

5

5

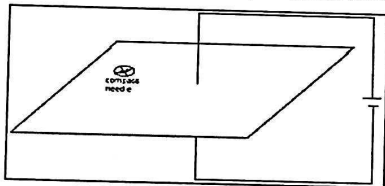
the magnetic field is vertically upward. The rod is connected in series with a battery and a key. It is observed that the rod gets displaced when the current passes through it. On the basis of your understanding of this phenomenon, answer the following questions:



- (i) Why does the rod get displaced on current passing through it?
- (ii) State the rule that determines the direction of force on conductor AB with a suitable diagram.
- (iii) What change is observed in a situation in which the axis of the rod 'AB' is moved and aligned parallel to the magnetic field and current is passed through the rod in the same direction?
- (iv) What will happen to the displacement of the conductor if direction of current through the conductor is reversed?

OR

- (a) Tania was doing an experiment with a magnetic compass kept on a cardboard and a straight current-carrying wire. She observed that as she moved the compass away from the current-carrying wire, the deflection of the compass needle reduced.

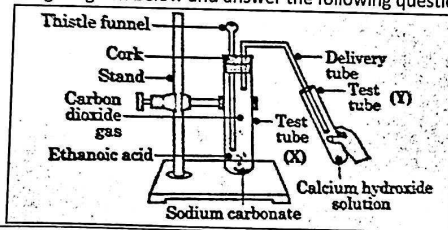


- (i) Explain why the deflection of the compass needle reduced as Mona moved away the compass needle from the current carrying wire.
- (ii) Mention one thing which could be changed in the circuit of the wire that it could increase the deflection of the needle.
- (iii) State the rule which you will apply to find the direction of the magnetic field associated with the wire for the condition described in the above figure. Also draw the field lines.
- (b) Why soft iron rod is used as core of an electromagnet?

SECTION - E

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

37. Refer to the figure given below and answer the following questions:



4

- (a) (i) What potential change would you observe in the solution of calcium hydroxide in test tube (Y)?
 (ii) If ethanol is taken in the test tube (X) instead of ethanoic acid, what change will be observed?

Attempt either subpart (b) or (c).

(b) Write the reaction involved in test tubes X and Y, respectively.

OR

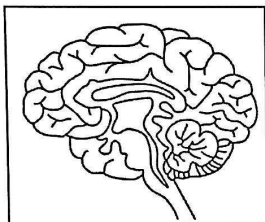
(c) State one use of the following:

- (i) Ethanol
 (ii) Ethanoic acid

38.

Read the passage and answer the question that follows:

A brain is displayed at the Allen Institute for Brain Science. The human brain is a 3-pound (1.4-kilogram) mass of jelly-like fats and tissues—yet it's the most complex of all known living structures. The human brain is more complex than any other known structure in the universe. Weighing in at three pounds, on average, this spongy mass of fat and protein is made up of two overarching types of cells—called glia and neurons— and it contains many billions of each. Neurons are notable for their branch-like projections called axons and dendrites, which gather and transmit electrochemical signals. Different types of glial cells provide physical protection to neurons and help keep them, and the brain, healthy. Together, this complex network of cells gives rise to every aspect of our shared humanity. We could not breathe, play, love, or remember without the brain.



Attempt either option a or b.

(a) Animals such as elephants, dolphins, and whales actually have larger brains, but humans have the most developed cerebrum. It's packed to capacity inside our skulls and is highly folded. Why our brain is highly folded?

OR

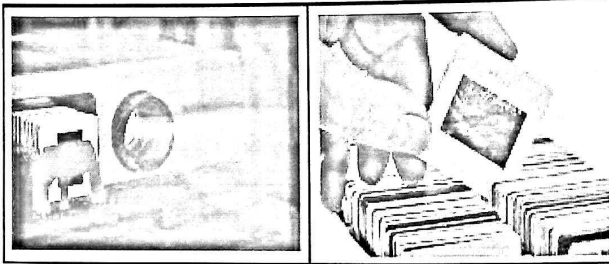
(b) How do we know that we have eaten enough?

(c) Mention two functions controlled by the medulla of the brain?

(d) Ritam learnt to ride bicycle but did not practice for many years. After almost a decade he tried riding a bicycle. Was his attempt successful? Explain.

39.

The below images are that of a specialized slide projector. Slides are small transparencies mounted in sturdy frames ideally suited for magnification and projection, since they have a very high resolution and a high image quality. There is a tray where the slides are to be put into a particular orientation so that the viewers can see the enlarged erect images of the transparent slides. This means that the slides will have to be inserted upside down in the projector tray. To show her students the images of insects that she investigated in the lab, Mrs. Sumana brought a slide projector. Her slide projector produced 500 times enlarged and inverted image of a slide on a screen 10 m away.



(a) Based on the text and data given in the above paragraph, what kind of lens must the slide projector have?

(b) If v is the symbol used for image distance and u for object distance then with one reason state what will be the sign for v/u in the given case?

Attempt either subpart (c) or (d).

(c) A slide projector has a convex lens with a focal length of 20 cm. The slide is placed upside down 21 cm from the lens. How far away should the screen be placed from the slide projector's lens so that the slide is in focus?

OR

(d) When a slide is placed 15 cm behind the lens in the projector, an image is formed, 3 m in front of the lens. If the focal length of the lens is 14 cm, draw a ray diagram to show image formation. (not to scale)



Delhi Public School, Howrah

PERIODIC ASSESSMENT -3 (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: SOCIAL SCIENCE (CODE- 087)

Time: -3 Hours

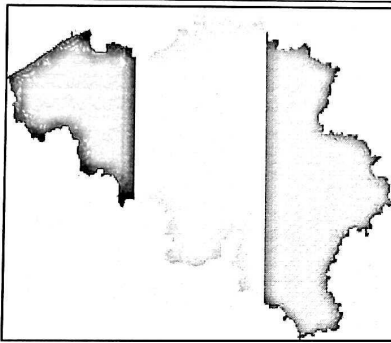
F.M.80


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	Read the statements regarding the Revolution of the Liberals in Europe during 1848 and choose the correct option: P: Abolition of the monarchy Q: Universal male suffrage has been proclaimed R: Political Rights to women were given S: Freedom of the Press had been asked for Options: (a) Only P and Q is correct (b) Only P, Q, R is correct (c) Only P and S is correct (d) Only P, Q, and S is correct.	1									
2	Complete the following table: <table border="1"><thead><tr><th>Name of the soil</th><th>Crop can be sown</th><th>Peculiar quality</th></tr></thead><tbody><tr><td>Black soil</td><td>A-?</td><td>Sticky when wet cracks when dry</td></tr><tr><td>B-?</td><td>Jute, Paddy, wheat</td><td>Very fertile, contain potash, phosphoric acid and lime</td></tr></tbody></table>	Name of the soil	Crop can be sown	Peculiar quality	Black soil	A-?	Sticky when wet cracks when dry	B-?	Jute, Paddy, wheat	Very fertile, contain potash, phosphoric acid and lime	1
Name of the soil	Crop can be sown	Peculiar quality									
Black soil	A-?	Sticky when wet cracks when dry									
B-?	Jute, Paddy, wheat	Very fertile, contain potash, phosphoric acid and lime									

	Choose correct option : (a) A – sugar, cotton B -Alluvial soil (b) A - Cotton, B -Black soil (c) A -Tea, Coffee, B -Red soil (d) A - Cotton. B -Alluvial soil																					
3	Match List I with List II. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">List I</th> <th colspan="2">List II</th> </tr> </thead> <tbody> <tr> <td style="width: 5%;">A</td> <td style="width: 45%;">The openness and accessibility of government</td> <td style="width: 5%;">1</td> <td style="width: 45%;">Accountability</td> </tr> <tr> <td>B</td> <td>The obligation of individuals to justify their actions or decisions to the public</td> <td>2</td> <td>Transparency</td> </tr> <tr> <td>C</td> <td>Ensures fairness and justice in society</td> <td>3</td> <td>Dignity of individuals</td> </tr> <tr> <td>D</td> <td>The quality of being worthy of honour and respect</td> <td>4</td> <td>Rule of law</td> </tr> </tbody> </table> (a) A-2, B-1, C-4, D-3 (b) A-4, B-2, C-1, D-3 (c) A-1, B-3, C-4, D-2 (d) A-3, B-2, C-1, D-4	List I		List II		A	The openness and accessibility of government	1	Accountability	B	The obligation of individuals to justify their actions or decisions to the public	2	Transparency	C	Ensures fairness and justice in society	3	Dignity of individuals	D	The quality of being worthy of honour and respect	4	Rule of law	1
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D	The quality of being worthy of honour and respect	4	Rule of law																			
4	Which of the following is a consequence of the loss of biodiversity? (a) Increased availability of natural resources (b) Greater stability of ecosystem services (c) Disruption of ecosystem functions and services (d) Greater resilience of forests to natural disasters	1																				
5	“Democracies are still under examination”. What does the statement suggest about the status of democracies? (a) Democracy is a failed experiment that should be abandoned (b) Democracies have achieved their ultimate goal and require no further change (c) Democracies are dynamic systems constantly evolving to meet new challenges (d) Democracies should prioritise uniformity over change	1																				
6	Water is a vital natural resource for all living organisms. It is the most essential element for human survival, agricultural activities, and the ecosystem at large. Globally, water is distributed unequally, with some regions experiencing an abundance of water, while others face severe water scarcity. Rivers, lakes, and groundwater are the primary sources of freshwater. However, overuse and pollution of water resources have become critical concerns in many parts of the world. Conservation of water, including the recycling and reuse of water, as well as the adoption of water-saving technologies, has become crucial for sustainable development. What is the suggested solution to address water scarcity in the paragraph? (a) Increased use of chemical fertilizers (b) Reuse and recycling of water (c) Increased deforestation (d) Expansion of river networks	1																				
7	There are two statements Assertion(A) and Reason(R). Answer these questions selecting the correct option given below. Assertion (A): Political parties in a democracy must be willing to undergo reforms to address societal challenges effectively. Reason(R): Reforms within political parties can enhance their internal democracy and responsiveness to public needs. (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	Subhash lobbies with various government offices to work specifically for the interests of the Scheduled tribes. Which of the following parties is he most likely to be associated with? (a) All India Trinamool Congress	1																				

	<p>(b) Indian National Congress (c) Communist Party of India (d) Bahujan Samaj Party</p>	
9	<p>Identify how has caste system influenced social dynamics and political representation in India? Choose the appropriate examples from the following options:</p> <ol style="list-style-type: none"> I. Historical discrimination against lower caste groups, affecting their socio- economic status II. Caste based mobilization in politics, leading to demands for representation and empowerment. III. Implementation of reservation policies to address historical injustices and promote social equality. IV. Eradication of the caste system through economic development and modernization. <p>(a) Statements I and II are appropriate (b) Statements II and IV are appropriate (c) Statements I and III are appropriate (d) Statements I , II and III are appropriate</p>	1
10	<p>There are two statements marked as Assertion (A) and Reason (R) . Mark your answer as per the codes given below:</p> <p>Assertion (A): In most industrial regions, workers come from the districts around. Reason (R): Peasants and Artisans who found no work in the village move to the industrial centres in search of work.</p> <p>(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</p>	1
11	<p>Which of the following statement best describes women empowerment?</p> <ol style="list-style-type: none"> (a) Encouraging men to take leadership roles (b) Promoting superiority of women over men (c) Ensuring equal opportunities and rights for women (d) Limiting the rights of men in all spheres 	1
12	 <p>In the country shown above, the state governments are _____</p> <ol style="list-style-type: none"> (a) subordinate to the Central Government (b) not a subordinate to the Central Government (c) have no say before the Central Government (d) powerful enough to contradict the Central Government 	1

13		<p>Study the picture and answer the questions that follow: Which of the following aspects best signifies this image of Ghor Kali?</p> <p>(a) Traditional family roles (b) Destruction of proper family relations (c) Cultural impact of the west (d) All of the above.</p>	1
14	<p>Is it mandatory for an Indian candidate to attempt a Central Government examination only in Hindi medium? Choose the right option along with the reason.</p> <p>(a) Yes, as Hindi is the national language of India, it should be the only medium through which the examination can be attempted. (b) No, the candidate can attempt the examination through any of the 22 scheduled languages of India as the Constitution recognises all the 22 languages as equal. (c) Yes, the candidate is expected to write the examination in Hindi as Hindi is the majority language spoken by 40% of Indian population. (d) No, the candidate can also attempt the examination through any international language that he or she knows.</p>	1	
15	<p>In the context of Industrialization in India, identify the person from the clues given below:</p> <p>I. They were the agents of the British East India Company II. They were appointed by the Company III. They supervised the weavers to deliver goods to the company</p> <p>(a) Gomasthas (b) Jobbers (c) Zamindars (d) Moneylenders</p>	1	
16	<p>Which of the following statements best describes the meaning of globalisation?</p> <p>(a) Removal of tax barrier on trade. (b) Providing people a higher standard of living. (c) Process of rapid integration between countries. (d) Taking special steps to attract foreign companies.</p>	1	
17	<p>There are two statements marked as Assertion (A) and Reason (R). Mark your answer as per the codes given below: Assertion(A): Banks are ready to give loans to SHGs. Reason(R): SHGs are cornerstones of the empowerment of rural women.</p> <p>(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.</p>	1	
18	<p>Total income of a country divided by its total population is known as _____.</p> <p>(a) Per capita income (b) National income (c) GDP (d) Capital income</p>	1	
19	<p>The erstwhile planning commission, presently known as Niti Ayog, estimates that in which sector nearly 20 lakh jobs can be created?</p> <p>(a) Aviation</p>	1	

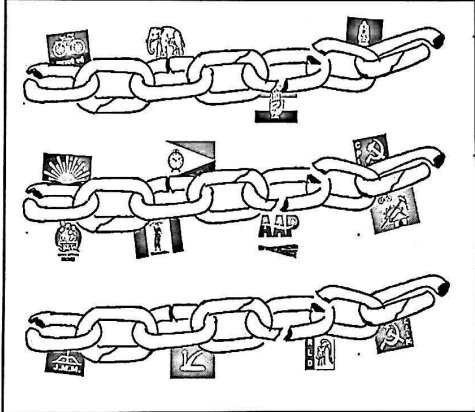
	(b) Tourism (c) Education (d) Hospitality	
20	There are some industries where the small manufacturers hit hard due to competition with the foreign companies in the globalisation process. Identify one such industry from the following- (a) Automobile (b) capacitors (c) Garments (d) Fast food	1

SECTION -B

VERYSHORT ANSWER QUESTION (2x4=8)

21	Trade and cultural exchange always went hand in hand. Explain with examples from the pre-modern world. OR Sometimes the new crops could make the difference between life and death. How far do you think this is true for Ireland in the mid 1840s?	2
22	No wonder the proportion of women among the highly paid and valued jobs is still very small. On an average an Indian woman works one hour more than an average man everyday. Yet much of her work is not paid and therefore often not valued. Equal wages The Equal Remuneration Act, 1976 provides that equal wages should be paid to equal work. However in almost all areas of work, from sports and cinema, to factories and fields, women are paid less than men, even when both do exactly the same work. A) What is sexual division of labour? B) What are feminist movements? How have they helped in changing mindsets?	2
23	How has the NTPC pioneered environmental protection? Enlist any two.	2

24



- A) What is the concept of political power sharing shown in the picture?
B) What are the advantages and disadvantages of the above shown concept in the political scenario?

SECTION C

SHORT ANSWER-BASED QUESTIONS (3 x5=15)

25	'Nationalism no longer retained its idealistic, liberal and democratic sentiment by the end of the 19 th Century in Europe.' Analyse the statement with examples.	3
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26	A. Given that a large number of people in our country are poor, does it affect their capacity to borrow? Give at least three reasons for your answer. OR B. Explain the procedure of issuing a cheque.	3
27	Wildlife in India faces big problems that could make them disappear. In this context, with the help of examples enumerate the major threats faced by wildlife in India?	3
28	A. "Democracy is an accountable, responsive and legitimate government". Explain the statement. OR B. "Democratic systems are based on political equality". Justify the statement.	3
29	A. "The impact of globalisation has not been uniform" Elaborate. OR B. What is trade barrier? Why did Indian government put restrictions on foreign trade after independence?	3
SECTION D		
LONG ANSWER-BASED QUESTIONS(5x4=20)		
30	A. Despite of various importance, Indian agriculture faces many challenges – Explain few of such challenges and also state how agriculture helps to boost up our country's economy? OR B. Various initiatives have been taken by the central and state governments to ensure the increase in agricultural production after independence. Explain any 5 such initiatives.	5
31	A. Sana is a student of history and is doing a research on the nationalist movement under Gandhi in India. She reads about various social groups taking part in the movement enthusiastically, and finds out about the Dalits not being very convinced with Gandhi's idea of Swaraj. Substantiate the statement on Sana's behalf with examples. OR B. 'Nationalism spreads when people begin to believe that they are all part of the same nation, when they discover some unity that binds them together.' In the light of the statement, elaborate on how Indian people rose to the idea of a nation.	5
32	A. What is the rationale behind decentralization? Describe the importance of the third-tier government in a country like India. OR B. Describe the two main routes of federalism. Write a short note on the Language Policy adopted by India.	5
33	A. Over the forty years between 1973-74 and 2013-14 while production in all three sectors in India has been increased, it has increased the most in tertiary sector. Explain with suitable reasons for why is tertiary sector becoming so important in India? OR B. State any two causes of rural unemployment in India. Suggest any three ways in which more employment opportunities can be created in the rural areas.	5
SECTION E		
CASE-BASED QUESTIONS(4 x3=12)		
34	Read the passage given below and answer the questions that follow: From the early nineteenth century, as you know, there were intense debates around religious issues in India. Different groups confronted the changes happening within colonial society in different ways, and offered a variety of new interpretations of the beliefs of different religions. Some criticised existing practices and campaigned for reform, while others countered the arguments of reformers. These debates were carried out in public and in print. Printed tracts and newspapers not only spread the new ideas, but they shaped the nature of the debate. A wider public could now participate in these public discussions and express their views. New ideas emerged through these clashes of opinions. (a) What issues did the Hindu reformers debate over in the 19 th Century? Give an example.	2

	(b) 'Among Hindus, too, print encouraged the reading of religious texts.' Explain with an example. (c) How did Print come to India?	1 1
35	<p>Read the passage given below and answer the questions that follow:</p> <p>Many thought that given the disadvantages and rising resistance against the multi-purpose projects, water harvesting system was a viable alternative, both socio-economically and environmentally. In ancient India, along with the sophisticated hydraulic structures, there existed an extraordinary tradition of water harvesting system. People had in-depth knowledge of rainfall regimes and soil types and developed wide ranging techniques to harvest rainwater, groundwater, river water and flood water in keeping with the local ecological conditions and their water needs. In hill and mountainous regions, people built diversion channels like the 'guls' or 'kuls' of the Western Himalayas for agriculture. 'Rooftop rainwater harvesting' was commonly practised to store drinking water, particularly in Rajasthan. In the flood plains of Bengal, people developed inundation channels to irrigate their fields. In arid and semi-arid regions, agricultural fields were converted into rain fed storage structures that allowed the water to stand and moisten the soil like the 'Khadins' in Jaisalmer and 'Johads' in other parts of Rajasthan.</p> <p>(a) Why is water harvesting system a viable alternative? (b) Describe the process of 'rooftop rainwater harvesting'? (c) Mention any two methods adopted by ancient India for water conservation.</p>	1 1 2
36	<p>Read the following passage and answer the questions:</p> <p>Development is a multidimensional process that deals with transformation in structure, acceleration of economic growth, reduction of inequality and eradication of poverty. It is used as a measure of human welfare. Amartya Sen defined the Capability Approach of development which contributed to the development of the Human Development Index which is used to measure the economic as well as social development of a country. The rich countries, excluding countries of Middle East and certain other small countries, are generally called developed countries as their HDI is very high compared to developing countries.</p> <p>Economic development deals with economic growth, and non-economic factors are also considered in the process. Social development connotes moving towards a better social living. The features of economic development include improvement in the quality of life, equitable distribution of resources, equal participation in decision making and the freedom to take part in various events of life. Economic development examples are employment generation, new startups creation etc.</p> <p>(a) What do you understand by Human Development Index? (b) How does the criterion used by UNDP differ from the world bank in classifying a country's developmental level? (c) Why are the middle-east countries excluded from the list of developed countries?</p>	1 1 2
SECTION F		
PICTURE BASED/MAPSKILL-BASED QUESTION (2+3=5)		
37a	<p>Two places A and B have been marked on the given outline map of India. Identify them and write their correct names on the lines drawn near them.</p> <p>(a) Peasant Satyagrah In Gujrat (b) JallianWala Bagh Incident</p>	2
b	<p>On the given map of India, name and label the following: (ANY-3)</p> <p>a) Namrup Thermal power plant b) Paradip Sea port c) Rajiv Gandhi International airport d) Oilfield marked as "D"</p>	3



Delhi Public School, Howrah

PERIODIC ASSESSMENT-III (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-

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उन्नीसवीं सदी में एक प्रसिद्ध फ्रांसीसी मनोचिकित्सक हुए एमिल कुए। उन्होंने आत्म-सम्मोहन के आधार पर स्वास्थ्य लाभ की एक नई विधि की खोज की थी जो खूब चर्चित हुई। उनका सूत्र था- 'दिन-ब-दिन में बेहतर, और बेहतर होता जा रहा हूँ। यह एक प्रयोग था जो ध्यान के नियम पर आधारित था। कुए ने हजारों लोगों को इस वाक्य को बार-बार दोहराने के लिए कहकर ठीक किया। जब भी किसी विचार पर ध्यान केंद्रित किया जाता है तो यह स्वतः उसे जीवंत बना देता है। विचार इतना प्रभावशाली होता है कि शरीर उसका अनुसरण करता है और वही भाव महसूस करने लगता है।

विचार और शरीर बहुत गहराई से जुड़े हैं। अधिकांश लोग दुःख में जीते हैं या बीमारी को आश्रय देते हैं, क्योंकि उन्होंने अपने प्रति निराशावादी रवैया विकसित कर लिया है। हमारा अचेतन मन जो कुल मन का 90 प्रतिशत हिस्सा होता है, हमारे विचारों को साकार करता है। यदि हम स्वस्थ विचारों की खेती करेंगे, तो सकारात्मक ऊर्जा उत्पन्न करेगा और यदि हम नकारात्मकता से भरे रहेंगे, तो बीमारी पैदा करके वह हमारा समर्थन करेगा। एक बार जब इसे पूरी तरह से समझ लिया जाता है तो हम शरीर व मन में स्वस्थ तरंगें पैदा करके अपनी बीमारियों को काफ़ी हद तक ठीक कर सकते हैं।

जब शारीरिक और मानसिक घाव भर जाते हैं, तब व्यक्ति स्वस्थ रहता है। कई बीमारियाँ शारीरिक से अधिक मानसिक होती हैं। लोग आस-पास की दवा की दुकान से दवाएँ तो खरीदते

हैं पर स्वास्थ्य क्लब में जाकर स्वस्थ रहने की कला नहीं सीखते। लोग बीमारी में निवेश करते हैं, स्वास्थ्य में नहीं। स्वास्थ्य को आदत बनाना चाहिए।

सोपान I. बहुविकल्पीय प्रश्न-

(3X1=3)

I. इस गद्यांश के अनुसार, नकारात्मक विचार जन्म देते हैं-

- (क) उदासी (ख) एकाकीपन
(ग) असफलता (घ) बीमारी

II. हमारे विचारों को साकार रूप देने का कार्य किया जाता है-

- (क) मस्तिष्क द्वारा (ख) अचेतन मन द्वारा
(ग) कर्मेन्द्रियों द्वारा (घ) चेतन मन द्वारा

III. निम्नलिखित कथन तथा कारण को ध्यान से पढ़िए तथा सही विकल्प का चयन कर लिखिए।

कथन : वर्तमान समय में लोगों के जीवन में एकाकीपन बढ़ रहा है।

कारण : लोगों ने अपने प्रति निराशावादी रवैया विकसित कर लिया है।

- (क) कारण सही है, किंतु कथन गलत है।
(ख) कथन तथा कारण दोनों गलत हैं।
(ग) कथन सही है, किंतु कारण उसकी गलत व्याख्या करता है।
(घ) कथन तथा कारण दोनों सही हैं तथा कारण कथन की सही व्याख्या करता है।

सोपान II. अति लघु प्रश्न-

(2X2=4)

IV. 'हम स्वस्थ विचारों की खेती करेंगे तो मन सकारात्मक ऊर्जा उत्पन्न करेगा।' आशय स्पष्ट कीजिए।

V. 'लोग बीमारी में निवेश करते हैं, स्वास्थ्य में नहीं' से क्या अभिप्राय है?

अपठित काव्यांश

2. निम्नलिखित काव्यांश पर आधारित प्रश्नों के उत्तर लिखिए-

7

निर्मल तेरा नीर, अमृत के सम उत्तम है,
शीतल मंद सुगंध पवन हर लेता श्रम है,
षट्ऋतुओं का विविध दृश्य युत अद्भुत क्रम है,
हरियाली फ़र्श नहीं मखमल से कम है.
शुचि-सुधा सींचता रात में, तुझ पर चंद्रप्रकाश है।
हे मातृभूमि, दिन में तरणि, करता तम का नाश है।

सुरभित, सुंदर सुखद सुमन तुझ पर खिलते हैं,
भाँति-भाँति के सरस, सुधोपम फल मिलते हैं,
औषधियाँ हैं प्राप्त एक से एक निराली,

खानें शोभित कहीं धातु वर रत्नों वाली,
जो आवश्यक होते हमें, मिलते सभी पदार्थ हैं।
हे मातृभूमि वसुधा, घरा, तेरे नाम यथार्थ हैं।

क्षमामयी, दयामयी है, तू क्षेममयी है,
सुधामयी, वात्सल्यमयी तू प्रेममयी है,
विभवशालिनी, विश्वपालिनी, दुखहीं है,
हे शरणदायिनी देवि, तू करती सबका त्राण है।
हे मातृभूमि, संतान हम, तू जननी, तू प्राण है।

सोपान I. बहुविकल्पीय प्रश्न-

(3X1=3)

I. पद्यांश में मातृभूमि की किस विशेषता का उल्लेख नहीं है?

- (क) प्राकृतिक सुंदरता से परिपूर्ण है। (ख) शांति और सुखों की वर्षा करने वाली है।
(ग) माँ के समान पालन करने वाली है। (घ) प्राकृतिक संसाधनों से परिपूर्ण है।

II. धरती की 'हरियाली' की तुलना किससे की गई है?

- (क) कोमल-मखमली कपड़े से (ख) कोमल-समतल धरा से
(ग) रंग-बिरंगे कपड़े से (घ) हरी-भरी धरा से

III कथन और कारण पर विचार करते हुए सही विकल्प चुनिए

कथन : धरती को जननी कहा गया है।

कारण : धरती से प्राप्त जल अमृत समान होता है।

- (क) कथन सही है, किंतु कारण गलत है।
(ख) कथन गलत है, किंतु कारण सही है।
(ग) कथन और कारण दोनों सही हैं और कथन कारण की सही व्याख्या है।
(घ) कथन और कारण दोनों सही हैं परंतु कारण कथन की सही व्याख्या नहीं है।

सोपान II. अति लघु प्रश्न-

(2X2=4)

IV. शीतल-सुगंधित पवन व्यक्ति पर क्या प्रभाव डालता है?

V. 'दिन में तरणि, करता तम का नाश है।' आशय स्पष्ट कीजिए।

(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. मेरे समझाने पर वह मान गई।

(संयुक्त वाक्य में बदलिए)

II. उस लड़की को बुलाओ, जो अखबार पढ़ रही है।

(सरल वाक्य में बदलिए)

- III. ऊँचा पद पाकर वह और भी विनम्र हो गया। (मिश्र वाक्य में बदलिए)
- IV. वह चौराहे पर खड़ा होकर उसकी प्रतीक्षा करने लगा। (संयुक्त वाक्य में बदलिए)
- V. जो महिला अधिवेशन को संबोधित करने के लिए उठी, वह बहुत सुंदर थी। (सरल वाक्य में बदलिए)

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

- I. किसी के द्वारा दरवाजा खटखटाया जा रहा है। (कर्तृवाच्य में बदलिए)
- II. तुम टहल ही नहीं सकते हो। (भाववाच्य में बदलिए)
- III. अनेक श्रोताओं ने कविता की प्रशंसा की। (कर्मवाच्य में बदलिए)
- IV. परीक्षा के बारे में अध्यापक द्वारा क्या कहा गया? (कर्तृवाच्य में बदलिए)
- V. हम इतनी गर्मी में नहीं रह सकते। (भाववाच्य में बदलिए)

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

- I. 'शर्माजी उसकी बातें सुनकर उहाके मारकर हँसने लगे।'
- II. 'मनुष्य के जीवन में आस-पड़ोस का बहुत महत्व होता है।
- III. लेखिका के व्यक्तित्व पर उनकी बहनों का बड़ा असर पड़ा।
- IV. 'भानपुरा से मेरी यादों का सिलसिला शुरू होता है।'
- V. 'मैं भी वहाँ रुककर उन्हें सुनना चाहती थी।'

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

- I. 'उसी तपस्वी से लम्बे थे
देवदारु दो चार खड़े।।'
- II. 'बन्द नहीं, अब भी चलते हैं
नियति-नटी के कार्य कलाप।।'
- III. "लम्बा होता ताड़ का वृक्ष जाता,
मानो छूना व्योम को चाहता है।।"
- IV. "पत्रा ही तिथि पाइये वा घर के चहुँ पास।
नित प्रति पुण्यो ही रहत आनन ओष उजास।।"
- V. "दिवसावसान का समय मेघमय आसमान से
उतर रही है वह सन्ध्या सुन्दरी परी सी धीरे-धीरे।"

(खंड-ग, पाठ्यपुस्तक)

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

कार्तिक आया नहीं कि बालगोविन भगत की प्रभातियाँ शुरू हुईं, जो फागुन तक चला करतीं। इन दिनों वह सबेरे ही उठते। न जाने किस वक्त जगकर वह नदी स्नान को जाते-गाँव से दो मील दूर। वहाँ से नहा-धोकर लौटते और गाँव के बाहर ही, पोखरे के ऊँचे भिंडे पर, अपनी खंजड़ी लेकर जा बैठते और अपने गाने टेरेने लगते। मैं शुरु से ही देर तक सोनेवाला हूँ, किंतु, एक दिन, माघ की उस दौत किटकिटानेवाली भोर में भी, उनका संगीत मुझे पोखरे पर ले गया था। अभी आसमान के तारों के दीपक बुझे नहीं थे। हाँ, पूरब में लोही लग गई थी जिसकी लालिमा को शुक्र तारा और बढ़ा रहा था। खेत, बगीचा, घर-सब पर कुहासा छा रहा था। सारा वातावरण अजीब रहस्य से आवृत मालूम पड़ता था। उस रहस्यमय वातावरण में एक कुश की चटाई पर पूरब मुँह, काली कमली ओढ़े, बालगोविन भगत अपनी खंजड़ी लिए बैठे थे। उनके मुँह से शब्दों का ताँता लगा था। उनकी अँगुलियाँ खंजड़ी पर लगातार चल रही थीं। गाते-गाते इतने मस्त हो जाते, इतने सुरूर में आते, उत्तेजित हो उठते कि मालूम होता, अब खड़े हो जाएँगे। कमली तो बार-बार सिर से नीचे सरक जाती। मैं जाड़े से कँपकँपा रहा था। किंतु तारे की छाँव में भी उनके मस्तक के श्रमबिंदु, जब-तब, चमक ही पड़ते।

- I. प्रभातियाँ किस समय गाया जाने वाला गीत है ?

- (क) भोर (ख) संध्या
(ग) मध्याह्न (घ) अपराह्न

- II. 'उनके मुँह से शब्दों का ताँता लगा था।' का आशय है :

- (क) वह लगातार प्रवचन दिए जा रहे थे।
(ख) वह एक के बाद एक गीत गाए जा रहे थे।
(ग) वह लगातार लोगों को आशीर्वचन दे रहे थे।
(घ) वह किसी से लगातार बातें किए जा रहे थे।

- III. गद्यांश में किस ऋतु का उल्लेख है ?

- (क) वसंत ऋतु (ख) ग्रीष्म ऋतु
(ग) शीत ऋतु (घ) वर्षा ऋतु

- IV. बालगोविन की प्रभातियाँ कब तक चला करती थीं ?

- (क) फाल्गुन से कार्तिक तक (ख) कार्तिक से फाल्गुन तक
(ग) फाल्गुन से आषाढ़ तक (घ) कार्तिक से चैत्र तक

- V. भगत गाँव के बाहर पोखरे के ऊँचे भिंडे पर क्यों गाया करते थे ? अनुपयुक्त विकल्प का चयन कीजिए -

- (क) शांत और प्राकृतिक वातावरण के कारण।
(ख) ताकि गाँववाले को परेशानी न हो।
(ग) उन्हें उस स्थान पर रोज़ गाने की आदत थी।

(घ) गाँव में अधिक शोर की मनाही थी।

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

(5X1=5)

नाथ संभुधनु भंजनिहारा। होइहि केउ एक दास तुम्हारा ॥
आयेसु काह कहिअ किन मोही। सुनि रिसाइ बोले मुनि कोही ॥
सेवकु सो जो करै सेवकाई। अरिकरनी करि करिअ लराई ॥
सुनहु राम जेहि सिवधनु तोरा। सहसबाहु सम सो रिपु मोरा ॥
सो बिलगाउ बिहाइ समाजा। न त मारे जैहहि सब राजा ॥
सुनि मुनि बचन लखन मुसुकाने । बोले परसुधरहि अवमाने ॥
बहु धनुही तोरी लरिकाई। कबहुँ न असि रिस कीन्हि गोसाईं ॥
येहि धनु पर ममता केहि हेतू । सुनि रिसाइ कह भृगुकुलकेतू ॥

I. राम ने स्वयं को परशुराम का सेवक क्यों बताया ?

- (क) वे परशुराम का क्रोध शांत करना चाहते थे।
(ख) वे परशुराम के क्रोध से डर गए थे।
(ग) वे उनसे उम्र में बहुत ही छोटे थे ।
(घ) वे व्यंग्य में उनसे ऐसा कह रहे थे।

II. परशुराम के क्रोध का क्या कारण था ?

- (क) सभा में उन्हें न बुलाया जाना।
(ख) उनके गुरु शिव का धनुष टूटना ।
(ग) लक्ष्मण की धृष्टता से भरी बातें।
(घ) राम की अभिमान से भरी बातें ।

III. लक्ष्मण ने शिवधनुष की तुलना अन्य धनुषों से क्यों की ?

- (क) परशुराम का क्रोध शांत करने के लिए ।
(ख) परशुराम का क्रोध और भड़काने के लिए।
(ग) परशुराम के प्रति अपने व्यंग्यात्मक लहजे के कारण ।
(घ) शिवधनुष का अन्य धनुषों के जैसा होने के कारण।

IV. परशुराम की बातें सुनकर लक्ष्मण मुसकुराने क्यों लगे ?

- (क) स्वयं पर नियंत्रण न रखने के कारण
(ख) परशुराम के क्रोध को गंभीरता से न लेने के कारण
(ग) परशुराम के क्रोध को भड़काने के लिए
(घ) परशुराम के आत्मप्रशंसात्मक वचनों को सुनकर

V. परशुराम ने राम के विनम्र वचनों का उत्तर कैसे दिया ?

- (क) विनम्रतापूर्वक
(ख) क्रोधपूर्वक
(ग) शांतिपूर्वक
(घ) तटस्थ भाव

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) 'नौबतखाने में इबादत' पाठ में काशी को संस्कृति की पाठशाला क्यों कहा गया है?
(ख) 'लखनवी अंदाज' पाठ में 'लेखक नवाब साहब के प्रति पूर्वाग्रह से ग्रसित थे। इस पंक्ति का भाव स्पष्ट कीजिए।
(ग) मानव की आरंभिक खोजों यथा आग, पहिया आदि की खोज के पीछे क्या प्रेरणा रही होगी? 'संस्कृति' पाठ के आधार पर लिखिए।
(घ) 'जीवन में सफल होने के लिए बाहरी रंग-रूप ही महत्वपूर्ण नहीं हैं।' एक कहानी यह भी' के आधार पर तर्कसंगत उत्तर 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) मित्रों द्वारा प्रेरित किए जाने पर भी जयशंकर प्रसाद अपनी आत्मकथा क्यों नहीं लिखना चाहते थे?
(ख) 'उत्साह' कविता को कोई और शीर्षक दीजिए और बताइए कि आपने उस विशेष शीर्षक का चयन क्यों किया?
(ग) 'संगतकार' कविता के संदर्भ में लिखिए कि संगतकार कौन होता है? उसके द्वारा किस प्राचीन परंपरा का निर्वाह किया जाता है ?
(घ) 'फसल' का सृजन कब संभव है? पठित कविता के आधार लिखिए।

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) 'मैं क्यों लिखता हूँ' पाठ के आधार पर अनुभव और अनुभूति का अंतर स्पष्ट करते हुए लिखिए कि लेखक ने अपनी जापान यात्रा के दौरान हिरोशिमा में सब कुछ देखकर भी तत्काल क्यों नहीं लिखा? अणु-विस्फोट की अनुभूति लेखक को कब हुई ?
(ख) 'माता का अँचल' पाठ जैसा वात्सल्य क्या वर्तमान की भागती-सी व्यस्त जिंदगी में भी देखने को मिलता है? इस प्रश्न के उत्तर में उपयुक्त तर्क भी दीजिए।
(ग) बार्डर एरिया में छावनी पर 'वी गिव अवर टुडे फॉर योर टुमारो' को पढ़कर लेखिका का मन उदास क्यों हो गया? 'साना-साना हाथ जोड़ि' पाठ के आधार पर लिखिए ।

(खंड-घ, रचनात्मक लेखन)

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

6

- (क) निष्पक्ष मीडिया सफल लोकतंत्र का आधार संकेत-बिंदु -

- भूमिका
 - अर्थ
 - लोकतंत्र पर प्रभाव
 - समस्याएँ
 - समाधान
- (ख) परोपकार ही सच्चा धर्म है

संकेत-बिंदु

- परोपकार का अर्थ
- मनुष्य का उत्तम गुण
- प्रकृति से उदाहरण
- सच्चे आनंद का स्रोत

(ग) विश्व पर्यावरण दिवस

संकेत-बिंदु

- भूमिका
- क्या
- क्यों
- पर्यावरण पर प्रभाव

13. आप साची/सचिन हैं। आपने महसूस किया है कि आपके मित्र का स्वभाव, बोलने का तरीका दिन-प्रतिदिन उग्र होता जा रहा है। संयमित व्यवहार और मीठी वाणी का महत्त्व बताते हुए मित्र को लगभग 100 शब्दों में एक पत्र लिखिए।

5

अथवा

आप प्रगति विद्यालय के साची/सचिन हैं। स्कूली शिक्षा में स्मार्ट कक्षाओं की बढ़ती भूमिका को देखते हुए अपने विद्यालय में भी स्मार्ट बोर्ड लगाए जाने का अनुरोध करते हुए अपने क्षेत्र के शिक्षा पदाधिकारी को लगभग 100 शब्दों में एक पत्र लिखिए।

14. आप निभा/निर्भय हैं। आपको अपने मित्र से पता चला है कि स्थानीय नवोदय विद्यालय में सहायक प्राथमिक शिक्षक का पद रिक्त है। आप इस पद के लिए योग्य उम्मीदवार हैं और अपनी सेवा देने के इच्छुक भी हैं। उक्त पद के लिए नवोदय विद्यालय के प्रमुख को आवेदन भेजने हेतु लगभग 80 शब्दों में अपना एक संक्षिप्त स्ववृत्त लिखिए।

5

अथवा

आप निभा / निर्भय हैं। आपने ऑनलाइन खरीददारी करके कुछ कपड़े खरीदे थे। उनकी गुणवत्ता आपकी आवश्यकताओं के अनुकूल न होने के कारण आपने उन्हें वापस कर दिया था। परंतु 10 दिन बीत जाने के बाद भी आपकी रकम वापस नहीं आई। संबंधित कंपनी के ग्राहक सेवा कक्ष (कस्टमर सर्विस सेल) को ई-मेल द्वारा अपनी समस्या से अवगत कराइए।

15. स्वास्थ्य मंत्रालय की ओर से रक्तदान हेतु जागरूकता फैलाने के लिए लगभग 40 शब्दों में एक आकर्षक विज्ञापन तैयार कीजिए।

4

अथवा

आप नंदिनी/नंदन हैं। आपके मित्र का चयन एन.डी.ए. में हो गया है। उसे शुभकामना देते हुए लगभग 40 शब्दों में एक संदेश लिखिए।



Delhi Public School, Howrah

PERIODIC ASSESSMENT-3 (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)

অনুচ্ছেদগুলি পাঠ করে প্রদত্ত প্রশ্নগুলির সঠিক উত্তর নির্বাচন করে লেখো:

[(1×4)×3=12]

1.A. দুর্গাপূজার আগেই ক্লাবগুলোতে প্রতিযোগিতা একটার পর একটা হয়ে গেল। ফ্ৰিটীশ একটিতেও কোনিকে নামায়নি, এমনকি অ্যাপোলোর প্রতিযোগিতাতেও নয়। যদিও এখন তার সময় অমিয়ার সময়ের প্রায় সমান, তবুও ফ্ৰিটীশের ধারণা এখনো তার প্রকাশের উপযুক্ত সময় আসেনি। হিয়ার সময় এখন কত, সেটা না-জানা পর্যন্ত কোনিকে সে বার করতে চায় না। এখন অনেকেই জেনে গেছে ফ্ৰিটীশ একজন সাঁতারু তৈরি করছে। বালিগঞ্জ ক্লাবে সে গেলেই প্রণবেন্দুর নির্দেশে হিয়া এমনভাবে সাঁতার কাটে কিংবা জল থেকে উঠে পড়ে, যার ফলে ফ্ৰিটীশ ওর সময় নিতে পারে না। হিয়াও কোন প্রতিযোগিতায় নামেনি। তাইতো ফ্ৰিটীশ কিছুটা ভাবনায় পড়ল। প্রত্যেক ক্লাবের, এমনকি স্টেট চ্যাম্পিয়নশিপের ডিকট্রি স্ট্যাডেও অমিয়া আর বেলাকে উঠতে দেখা গেল। একদিন খবরের কাগজে একটা খবর দেখে কেটে রেখে দিল। বোম্বাইয়ের মহারাষ্ট্র স্টেট চ্যাম্পিয়নশিপের রমা যশি নামে একটি মেয়ে ১০০ মিটার ফ্রি স্টাইলে সময় করেছে ১ মিনিট ১২ সেকেন্ড। এক-কুড়ির উপরে সময় করাই ভারতীয় মেয়েদের রেওয়াজ, সেখানে এক-বারো! ফ্ৰিটীশ এরপর কোনির ট্রেনিং আরো কঠিন করে তুলল।

I. হিয়ার কোচ কে?

- A) ফ্ৰিটীশ
- B) প্রণবেন্দু
- C) রমা যশি
- D) কোনি

II. রমা যশি কোন রাজ্যের সুইমার?

- A) চেন্নাই
- B) পশ্চিমবঙ্গ
- C) মহারাষ্ট্র
- D) ছত্রিশগড়

III. মন্তব্য- ফ্ৰিটীশ কোনির ট্রেনিং আরো কঠিন করে তুলল।

কারণ ক)- এক কুড়ির উপরে সময় করা ভারতীয় মেয়েদের রেওয়াজ।

কারণ খ)- রমা জশি ফ্রি স্টাইলে সময় করেছিল ৭২ সেকেন্ড।

A) কারণ ক এবং খ দুটোই ঠিক

- B) কারণ ক ঠিক কিন্তু কারণ খ ভুল
 C) কারণ ক ভুল কিন্তু কারণ খ ঠিক
 D) কারণ ক এবং কারণ খ দুটোই ভুল

IV. 'প্রত্যেক' শব্দটির সন্ধি বিচ্ছেদ করলে হবে-

- A) প্রতি+এক
 B) প্রতঃ+এক
 C) প্রত্য+এক
 D) প্রতি+ক

1.B. আঠাশ বছর হয়ে গেল তিনি নেই। তিনি বাঁধ ভাঙা ও বাঁধন ছেঁড়ার গল্প। তিনি মানে খালাসিটোলার প্রমত্ততা, তিনি মানে 'এই আসছি' বলে বেরিয়ে চাইবাসা। কিন্তু তার বাইরেও আছে আরও অনেক কিছু। উচ্ছৃঙ্খলতা, অজস্র মিথ কিংবা অস্থিরতা পেরিয়ে কবি শক্তি চট্টোপাধ্যায় যেন চির অন্বেষণরত এক নাবিক।

অগ্নি রায়ের এক বন্ধু বাড়ি এসে স্নানমুখে একটি সাক্ষ্য দৈনিক হাতে ধরিয়ে দিয়েছিল। প্রথম পাতার শিরোনাম অনেকটা এরকম, 'শক্তি চট্টোপাধ্যায়ের জীবনাবসান'। শান্তিনিকেতন থেকে নিয়ে আসা হয়েছে কলকাতায়। পরেরদিন ছিল বাঁঝালো রোদের এক আশ্চর্য বসন্ত। তাঁর প্রিয় বর্ষা বা কোদালে মেঘের ছিটফোঁটাও ছিল না কোথাও। কবির মৃত্যুতে বিধ্বস্ত কলকাতা সেদিন। রবীন্দ্রসদন আর নন্দন লাগোয়া চত্বরে ভিড় বাড়ছে। বিচিত্র, শ্রেণিহীন সেই ভিড়। বহু ট্যান্সি ড্রাইভার, সর্বস্বান্ত চেহারার বিভিন্ন পেশার মানুষ, সকাল সকালই দু'পাত্র চড়িয়ে আসা কবিকুল, আমলা, অভিনেতা, গায়ক, পুলিশকর্তা – কে নেই। সৌমিত্র চট্টোপাধ্যায় বলছিলেন তাঁদের বন্ধু জীবনের কথা- 'সকলের চেয়ে বেশি নিয়ে ওর একা থাকার অহংকার ছিল বোধহয়।' তাই কতকাল আগেই লিখেছিলেন- "চতুর্দোলা নিয়ে যম/অপমানে লাগে/... মৃত্যুর পরেও যেন হেঁটে যেতে পারি"। কবির মৃত্যুতে এত দীর্ঘ এবং স্বতঃস্ফূর্ত গান কবিতার শোকযাত্রা তার আগে কলকাতা খুব বেশি দেখেনি। আমরা হাঁটছি, পল্লব কীর্তিনিয়া ভেঙে পড়তে পড়তেও আপ্রাণ গান গেয়ে চলেছেন, "ঘরেও নহে পারেও নহে যে জন আছে মাঝখানে ...।" হাফহাতা হাওয়াই শার্ট পরে সন্দীপন চট্টোপাধ্যায় পাশেই হাঁটছেন। শক্তির বিভিন্ন সময়কার পদ্যের পঙক্তি গর্জে উঠছে শোকমিছিল থেকে। এমন সময় একজন পড়তে শুরু করল, "ভালোবাসা পেলে সব লণ্ডভণ্ড করে চলে যাবো"... চতুর্দশপদী সিরিজের বিখ্যাত সেই কবিতা।... সমীর সেনগুপ্ত 'আমার বন্ধু শক্তি' গ্রন্থে লিখছেন "বড়ো কোম্পানিতে চাকরিও পেয়েছিল বার দুই, কিন্তু নিস্তরঙ্গ মধ্যবিত্ত জীবনে প্রমোশন পেয়েও নিল না। সামান্য কিছুদিন গ্রিনরুম টেলমল করে হাঁটা- তারপরই রাজার মুকুট পরে মঞ্চ প্রবেশ। প্রায় চল্লিশ বছর সেই মুকুট মাথায় নিয়ে ঘুরেছে শক্তি, ওকে দেখলে মনে হত না মুকুটটার ওজন একটা পালকের থেকে বেশি।"

I. মন্তব্য- অগ্নি রায়ের এক বন্ধু বাড়ি এসে স্নানমুখে একটি সাক্ষ্য দৈনিক হাতে ধরিয়ে দিয়েছিল।

কারণ ক): ওই কাগজে লেখা ছিল শক্তি চট্টোপাধ্যায়ের চলে যাওয়ার কথা।

কারণ খ): ওই কাগজে লেখা ছিল শক্তি চট্টোপাধ্যায়কে শান্তিনিকেতন থেকে নিয়ে আসার খবর।

- A) কারণ ক ঠিক, কিন্তু কারণ খ ভুল।
 B) কারণ ক ভুল, কিন্তু কারণ খ ঠিক
 C) কারণ ক এবং কারণ খ দুটোই ভুল
 D) কারণ ক এবং কারণ খ দুটোই ঠিক

II. কবি শক্তি চট্টোপাধ্যায়ের শেষ ইচ্ছা কী ছিল?

- A) তাঁকে যেন কেওড়াতলা মহাশ্মশানে দাহ করা হয়
- B) মৃত্যুর পরেও তিনি যেন হেঁটে যেতে পারেন
- C) বিচিত্র, শ্রেণিহীন মানুষ যেন তাঁর শেষযাত্রায় অংশগ্রহণ করেন
- D) তাঁর শেষযাত্রায় কোনো হরিনাম নয়, সেখানে যেন কেবলমাত্র রবীন্দ্রনাথ থাকেন

III. "ওকে দেখলে মনে হত না মুকুটটার ওজন একটা পালকের থেকে বেশি।"- আলোচ্যমান উক্তিটির মধ্যে দিয়ে লেখক শক্তি চট্টোপাধ্যায় সম্পর্কে কোন্ কথাটি বোঝাতে চেয়েছেন?

- A) অহঙ্কারশূন্য একজন মানুষ
- B) খুব সাধারণ একজন মানুষ
- C) প্রচণ্ড আবেগঘন একজন মানুষ
- D) রাগী একজন মানুষ

IV. 'নন্দন' শব্দের সমার্থক শব্দটি হল-

- A) আনন্দের উৎস
- B) নির্ভর
- C) আনন্দদায়ক
- D) তন্ময়

1.C. একদিন তানসেন তার শিক্ষক দ্বারা শেখানো গানগুলোর একটি গাইছিলেন এবং ইচ্ছাকৃত একটি ভুল স্বর গাইছিলেন ইহা সম্ম্যাসীকে সহসা উত্তেজিত করল, তার কলাশাস্ত্রীয় প্রকৃতিকে প্রচণ্ড মানসিক আঘাত দিল। তিনি তানসেনের দিকে ফিরলেন এবং তীব্র তিরস্কার করে বললেন, "তোমার কি হয়েছে তানসেন। তুমি আমার ছাত্র হয়ে কিভাবে এমন সাংঘাতিক ভুল করেছ? তিনি তখন গানের ওই অংশটি সঠিকভাবে গাইতে শুরু করলেন, নিজেকে সম্পূর্ণ গানের মানসিকতায় নিয়ে আসলেন এবং নিজেকে সম্পূর্ণ ভুলে গিয়ে গানে ডুবে গেলেন যা পৃথিবী এবং স্বর্গ এবং আকবর ও তানসেন ও তাদেরকে সম্পূর্ণ সংগীতে এবং সংগীতের মুগ্ধতায় ডুবিয়ে দিলেন।

ইহা এক অনন্য অনুভূতি। যখন সংগীত শেষ হল, তখন আকবর তানসেনের দিকে তাকিয়ে বললেন, "তুমি বলেছ তুমি এই সম্ম্যাসীর কাছ থেকে সংগীত শিখেছ এবং তারপরও আমার মনে হচ্ছে তুমি ইহার জীবিত মুগ্ধতা হারাছ। তোমার সংগীতটা আত্মাকে জাগ্রত না করে বেসুরো মনে হচ্ছে।"

I. কে প্রথমে ভুল স্বরে গান গাইছিলেন?

- A) সম্ম্যাসী
- B) তানসেন
- C) আকবর
- D) একটি ছাত্র

II. তানসেন কার কাছ থেকে গান শিখেছিলেন?

- A) আকবরের
- B) সম্ম্যাসীর
- C) ভিক্ষুকের
- D) দেবতার

III. মন্তব্য-তানসেনের শিক্ষাগুরু সম্যাসী উদ্ভেজিত হলেন এবং তার কলাশাস্ত্রীয় প্রকৃতিকে প্রচন্ড মানসিক আঘাত দিল।

কারণ ক) তানসেন ইচ্ছাকৃতভাবে ভুল স্বরে গান গাইছিলেন।

কারণ খ) তানসেন নিজেই সম্পূর্ণ ভুলে গিয়ে গানে ভুল দিলেন।

A) কারণ ক এবং খ দুটোই ঠিক

B) কারণ ক ঠিক কিন্তু কারণ খ ভুল

C) কারণ ক ভুল কিন্তু কারণ খ ঠিক

D) কারণ ক এবং কারণ খ দুটোই ভুল

IV. তিনি তানসেনের দিকে ফিরলেন এবং তাকে তীব্র তিরস্কার করলেন।- এটি কী ধরনের বাক্য?

A) সরল

B) যৌগিক

C) জটিল

D) নেতিবাচক

Section-B

Grammar: (MCQ)

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

[1×3=3]

I. তিনি বুঝিয়াছিলেন এই, কৃষকের উন্নতি না হইলে দেশের উন্নতি হইবে না।- চলিত গদ্যে রূপান্তর করলে বাক্যটির রূপ কী হবে?

A) তিনি বুঝিয়াছিলেন এই, কৃষকের উন্নতি না হলে দেশের উন্নতি হইবে না।

B) তিনি বুঝিয়াছিলেন এই, কৃষকের উন্নতি না হইলে দেশের উন্নতি হবে না।

C) তিনি বুঝেছিলেন এই, কৃষকের উন্নতি না হলে দেশের উন্নতি হবে না।

D) তিনি বুঝেছিলেন এই, কৃষকের উন্নতি না হইলে দেশের উন্নতি হবে না।

II. তবে ইদানিং তিনি চোখে ভালো দেখছেন না।- বাক্যটি চলিতরীতির দৃষ্টান্ত।

কারণ(ক)- এই বাক্যে সর্বনাম ও ক্রিয়াপদের পূর্ণাঙ্গ রূপ ব্যবহৃত হয়েছে।

কারণ(খ) - এই বাক্যের সর্বনাম ও ক্রিয়াপদের সংক্ষিপ্ত রূপ ব্যবহৃত হয়েছে।

A) কারণ ক এবং খ দুটোই ঠিক

B) কারণ ক এবং খ দুটোই ভুল

C) কারণ ক ভুল কিন্তু খ ঠিক

D) কারণ ক ঠিক কিন্তু খ ভুল

III. কালের অমোঘ স্রোতে তাদের রাজছত্র ভেঙে পড়েছে, শব্দহীন হয়েছে রণদামামা।- সাধুগদ্যে রূপান্তর করলে বাক্যটি কী হবে?

A) কালের অমোঘ স্রোতে তাহাদের রাজছত্র ভেঙে পড়িয়াছে, শব্দহীন হয়েছে রণদামামা।

B) কালের অমোঘ স্রোতে তাহাদের রাজছত্র ভেঙে পড়েছে, শব্দহীন হইয়াছে রণদামামা।

C) কালের অমোঘ স্রোতে তাদের রাজছত্র ভাঙিয়া পড়েছে, শব্দহীন হইয়াছে রণদামামা।

D) কালের অমোঘ স্রোতে তাহাদের রাজছত্র ভাঙিয়া পড়িয়াছে, শব্দহীন হইয়াছে রণদামামা।

IV. আমি মিনির অহেতুক ভয় ভাঙাইয়া দিবার অভিপ্রায়ে তাহাকে অন্তঃপুর হইতে ডাকাইয়া আনলাম।- চলিত গদ্যে রূপান্তর করলে বাক্যটির রূপ কী হবে?

- A) আমি মিনির অহেতুক ভয় ভেঙে দেবার ইচ্ছায় তাকে ভিতর থেকে ডাকিয়ে আনলাম।
- B) আমি মিনির অহেতুক ভয় ভেঙে দেবার অভিপ্রায়ে তাকে অন্তঃপুর থেকে ডেকে আনলাম।
- C) আমি মিনির অহেতুক ভয় ভেঙে দিবার অভিপ্রায়ে তাকে অন্তঃপুর হইতে ডাকাইয়া আনলাম।
- D) আমি মিনির অহেতুক ভয় ভাঙাইয়া দিবার অভিপ্রায়ে তাকে অন্তঃপুর থেকে ডাকাইয়া আনলাম।
- V. একটি ছেলে সুতোয় বাঁধা বেলুন নিয়ে মায়ের সাথে মেলায় ঘুরছে।-সাধু গদ্যে রূপান্তর করলে বাক্যটির রূপ কী হবে?
- A) একটি বালক সুতোয় বাঁধা বেলুন নিয়ে মায়ের সাথে মেলায় ঘুরিতেছে।
- B) একটি বালক সুতোয় বাঁধা বেলুন লইয়া মায়ের সহিত মেলায় ঘুরিতেছে।
- C) একটি বালক সুতোয় বাঁধা বেলুন লইয়া মায়ের সাথে মেলায় ঘুরিতেছে।
- D) একটা ছেলে সুতোয় বাঁধা বেলুন নিয়ে মায়ের সহিত মেলায় ঘুরছে।

Section-C

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

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

[1×6=6]

I. 'জ্ঞানচক্ষু' গল্পের প্রধানত কি দেখানো হয়েছে?

- A) নবীনদের প্রতি প্রবীনদের সংবেদনশীলতার অভাব
- B) নবীনদের প্রতি প্রবীনদের গভীর সংবেদনশীলতা
- C) পাঠকদের প্রতি লেখকদের আস্থার অভাব
- D) পাঠকদের প্রতি লেখকদের গভীর আস্থা

II. মন্তব্য: তপন গল্প লিখে প্রথমেই ছোটমাসিকে দেখিয়েছিল।

কারণ ক): ছোটমাসি তপনের প্রায় সমবয়সী বন্ধুর মতো ছিল।

কারণ খ): ছোটমাসির বর লেখক ছিলেন।

- A) কারণ ক এবং খ দুটোই ভুল
- B) কারণ ক ঠিক কিন্তু খ ভুল
- C) কারণ ক এবং খ দুটোই ঠিক
- D) কারণ ক ভুল কিন্তু খ ঠিক

III. 'আলোবাবু' গল্পে লেখক আসলে আলোবাবুর চরিত্রের কোন্ দিকটিকে দেখাতে চেয়েছেন?

- A) নিরেট-পাগলামির দিক থেকে
- B) অসম্ভব মজার দিকটিকে
- C) বিশুদ্ধ মানবিকতার দিকটিকে
- D) অসহ্য বেআক্লিলির দিকটিকে

IV. 'মাঝে মাঝে সত্যিই উপোস করেন হরিদা।'- কেন?

- A) রান্না করার অনিচ্ছায়

- B) কাজের চাপে
C) পয়সার অভাবে
D) স্বাস্থ্যের কারণে

V. মন্তব্য: অমৃত কালিয়ার সঙ্গে লড়তে চাইছিল না।

কারণ ক): তার হেরে যাবার ভয় ছিল।

কারণ খ): জামা নষ্ট হয়ে যাবার ভয় ছিল।

- A) কারণ ক এবং খ দুটোই ভুল
B) কারণ ক ঠিক কিন্তু খ ভুল
C) কারণ ক এবং খ দুটোই ঠিক
D) কারণ ক ভুল কিন্তু খ ঠিক

VI. আলোবাবু কিসের সঙ্গে ঘড়ির দমের তুলনা করেছেন?

- A) আমাদের স্থানের সঙ্গে
B) আমাদের খাবারের সঙ্গে
C) আমাদের শরীর চর্চার সঙ্গে
D) আমাদের সুখ শান্তির সঙ্গে

VII. হরিদা কোন সময় বাইজি সেজে ফুলসাজি হাতে হেঁটে যাচ্ছিলেন?

- A) ভোরের শুরুতে
B) দুপুরের শুরুতে
C) সন্ধ্যার শুরুতে
D) বিকেলের শুরুতে

VIII. অমৃত আর ইসাবের নতুন জামা দুটো কবে তৈরি হয়েছিল?

- A) হোলির দিন
B) হোলির একদিন আগে
C) হোলির দুদিন আগে
D) হোলির তিনদিন আগে

4. গল্পগুচ্ছ(সহায়ক পাঠ) থেকে সঠিক বিকল্প উত্তরটি নির্বাচন করে লেখো: (যেকোনো চারটি)

[1×4=4]

I. 'সে প্রায় পেন্তাবাদাম ঘুষ দিয়া ক্ষুদ্র লুন্ধ হৃদয়টুকু অনেকটা অধিকার করিয়া লইয়াছে।' -এখানে 'ঘুষ' শব্দটা কোন অর্থে ব্যবহৃত হয়েছে?

- A) নিন্দা অর্থে
B) ঘৃণা অর্থে
C) বিদ্রুপ অর্থে
D) আদর অর্থে

II. 'কিন্তু পূর্ববৎ আর তাহার ডাক পড়ে না।' অর্থাৎ পোস্টমাস্টার আর আগের মতো রতনকে ডাকতেন না।

কারণ ক): তিনি কলকাতায় ফেরার চিন্তায় ডুবে থাকতেন।

কারণ খ): তিনি তার বদলির দরখাস্তের জবাবের অপেক্ষায় থাকতেন।

- A) কারণ ক এবং খ দুটোই ভুল
- B) কারণ ক ঠিক কিন্তু খ ভুল
- C) কারণ ক এবং খ দুটোই ঠিক
- D) কারণ ক ভুল কিন্তু খ ঠিক

III. জমিদারি হারিয়ে শশিভূষণ 'যেন ঘাটের বাঁধা সোপান হইতে পিছলিয়া এক মুহূর্তে ডুবজলে গিয়া পড়িলেন।'

কারণ ক): তার অন্য কোন কাজ করার মত স্বভাব বা শিক্ষা ছিল না।

কারণ খ): তার অন্য কোন কাজ করার মত বয়স ছিল না।

- A) কারণ ক এবং খ দুটোই ভুল
- B) কারণ ক ঠিক কিন্তু খ ভুল
- C) কারণ ক এবং খ দুটোই ঠিক
- D) কারণ ক ভুল কিন্তু খ ঠিক

IV. নতুন ব্যক্তিটি মূলত কী উদ্দেশ্যে শশিভূষণের জমিদারি খরিদ করেছিলেন?

- A) প্রজাকল্যাণের উদ্দেশ্যে
- B) নতুন অভিজ্ঞতা লাভের উদ্দেশ্যে
- C) সম্মান লাভের প্রত্যাশায়
- D) লোকপ্রিয়তা অর্জনের প্রত্যাশায়

V. 'পোস্টমাস্টার' গল্পটি প্রথম কোথায় প্রকাশিত হয়?

- A) সাধনা পত্রিকায়
- B) হিতবাদী পত্রিকায়
- C) 'ছোটগল্প' গ্রন্থে
- D) 'গল্পগুচ্ছ' গ্রন্থে

VI. 'আমি আসিয়া মনিকে তাহার আসন্ন বিপদ হইতে উদ্ধার করিয়া বাহিরে লইয়া গেলাম।'- বিপদটা কি কারণে তৈরি হয়েছিল?

- A) মিনির বাদাম কিসমিস প্রীতির
- B) মিনির প্রগলভ স্বভাবের
- C) কাবুলিওয়ালার নিঃস্বার্থ স্নেহের
- D) কাবুলিওয়ালার ব্যবসা বুদ্ধির

PART-B

(Descriptive Type Questions) : 55 Marks

Section-B: Grammar: (Subjective)

5. A. সন্ধি বিচ্ছেদ কর: (যে কোন দুটি):

[1×2=2]

দ্যালোক, সংবলিত, ইতঃপূর্বে, হুট

B. সন্ধিবদ্ধ পদটি লেখ: (যে কোন দুটি):

[1×2=2]

বয়ঃ + বৃদ্ধি, উৎ + লম্ব, আয়ুঃ + কাল, হরি+চন্দ্র

[1×3=3]

6. ব্যাসবাক্যসহ নিম্নরেখাঙ্কিত পদের সমাস নির্ণয় কর: (যেকোন তিনটি)

- I. আজকাল ঝাড়ফুঁকে কেই বিশ্বাস করে না।
- II. রামকৃষ্ণ কথামৃত শুনে মুগ্ধ হলাম।
- III. মোবাইলের জন্য হাতঘড়ি কম ব্যবহার করা হয়।
- IV. অন্যান্যের প্রতিবাদ করতে শেখো।
- V. লোকটি বেকসুর খালাস পেল।

[1×3=3]

7. নির্দেশানুসারে প্রদত্ত বাক্যগুলির গঠনগত রূপান্তর কর: (যেকোন তিনটি)

- I. আমার যৌবন বয়সে কোম্পানির সাথে লড়েছি। (জটিল বাক্য)
- II. যদিও শিমূল গাছ বাড়ে দ্রুত তবুও বলাইয়ের আগ্রহের সাথে পাল্লা দিতে পারে না। (যৌগিক বাক্য)
- III. মহাজন যে সুদটি আদায় করে তা মানুষের আত্মসম্মান। (সরল বাক্য)
- IV. সে দরিদ্র হলেও সৎ। (জটিল বাক্য)
- V. জল দিয়ে আমার প্রাণ দান করুন। (যৌগিক বাক্য)

Section-C

[Main Course Book & Supplementary Reader/Non-detailed Text]

(Subjective)

8. "না-না আমি বলছি-তপনের হাত আছে। চোখও আছে।"- এই উক্তির মধ্যে তপনের বয়সের ছেলেমেয়েদের লেখার সাথে তপনের লেখার কোন পার্থক্য প্রকাশ পেয়েছে?

[2]

9. a) 'বুধলাম অবিনাশবাবুর স্ত্রী দূর করে দিয়েছেন তাঁকে'- আলোবাবুকে দূর করে অবিনাশবাবুর স্ত্রী কীসের পরিচয় দিয়েছেন? [3]

b) "পরদিন অবশ্য স্কুলের মাস্টারমশায়ের জানতে বাকি থাকেনি, কাকে তিনি আটআনা ঘুষ দিয়েছেন।"- পরদিন মাস্টারমশায়ের কী প্রতিক্রিয়া হয়েছিল?

[3]

10. "আজ তোমাদের একটা জ্বর খেলা দেখাব।"

- a) কে, কাদের উদ্দেশে এ কথা বলেছেন?
- b) তিনি কোন জ্বর খেলা দেখিয়েছিলেন?

[2+3=5]

OR

"অমৃতের জবাব আমাকে বদলে দিয়েছে।"

- a) অমৃতের কোন্ জবাব বক্তাকে বদলে দিয়েছিল?
- b) কীভাবে বদলে দিয়েছিল তার বর্ণনা দাও।

11. সপ্রসঙ্গ ব্যাখ্যা কর।

[5×1=5]

"গান দাঁড়াল ঋষিবালক
মাথায় গোঁজা ময়ূরপালক"

OR

"তোমার পানি আর আমার জল
জীবনের জন্যে
একসঙ্গে একাকরে ভ'রে নিই।"

12. আমাদের চোখমুখ ঢাকা

আমরা ভিখারি বারোমাস—

- ‘চোখমুখ ঢাকা’ বলতে কবি কী বুঝিয়েছেন?
- তাদের সম্পর্কে এমন উক্তি করার কারণ কী?

[2+3=5]

OR

“সহজ করে বাঁচা কি আর খাঁচাতে সম্ভব।”

- কার লেখা কোন কবিতার অংশ?
- অংশটির তাৎপর্য বিশ্লেষণ কর।

13. “কখনো-কখনো দুটো-একটা কবিতা লিখিতে চেষ্টা করেন।”

- পোস্টমাস্টার তার কবিতায় কীসের কথা বর্ণনা করতেন?
 - গ্রামে পোস্টমাস্টারের বাস্তব অবস্থা ও কবিতায় যা লিখতেন তার বর্ণনা যে বিপরীত তা’ লেখক কীভাবে তুলে ধরেছেন?[2+3=5]
14. “ও তো পরের ঘরের মেয়ে, সুযোগ পাইলেই দুটো কথা বলিবে, তাই বলিয়া কি ঘরের লোককে ছাড়িয়া যাইতে হইবে।”-
কথাটি কে কাকে কখন বলেছে তা কথাটির প্রকৃত অর্থসহ বুঝিয়ে দাও।

[5]

OR

“মঙ্গল আলোকে আমার শুভ উৎসব উজ্জ্বল হইয়া উঠিল।” – ‘কবুলিওয়ালা’ গল্প অবলম্বনে এই উক্তিটির সার্থকতা বিচার করো।

Section-D

Creative Writing

15. নিম্নলিখিত যেকোনো একটি বিষয়ে অবলম্বনে অনুচ্ছেদ রচনা কর:

[6]

- যদি তুমি শহরের মেয়র হতে, কিভাবে শহরের সৌন্দর্যায়ন করতে
- বিপদে মোরে রক্ষা করো, এ নহে মোর প্রার্থনা
- পশ্চিমবঙ্গের কুটির শিল্প

16. অতিরিক্ত বেগে মোটর বাইক চালানোর ফলে নানা রকমের দুর্ঘটনা ঘটে। এর বিরুদ্ধে প্রতিবাদ করে পত্রিকা সম্পাদকের কাছে একটি চিঠি লেখো।

[6]

OR

বাংলার গল্প পাঠকের সংখ্যা দিনে দিনে হ্রাস পাচ্ছে। এই মর্মে সংবাদপত্র সম্পাদকের কাছে একটি চিঠি লেখ।



Delhi Public School, Howrah

PERIODIC ASSESSMENT – III (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)

PRACTICAL EXAMINATION

Time Allowed:-2 Hours

F.M.-50

General Instructions:

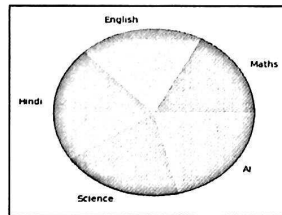
1. Please read the instructions carefully.
2. This Question Paper is divided into 02 sections, viz., Section A and Section B.
3. Section A is of 15 marks and is based on the practical activity.
4. Section B is of 35 marks and is based on the practical file, project and viva-voce.

SECTION A (15 marks)

Write Python programs for the following:

1. Write a script to take an integer list from user and print a new list where the items will be 5 times of what it was in the original list. (2)
2. Write a program to find the sum of all prime numbers between 1 to n (n is to be asked from user). (4)
3. Construct a program to calculate the mean and median of an array of 10 integers using the numpy module. (3)
4. Create the array for the data set given below and construct its equivalent Pie Chart (given below for reference). Show the output using the matplotlib.pyplot interface. Use 'labels' for the subjects to represent them along with their corresponding slices. (3)

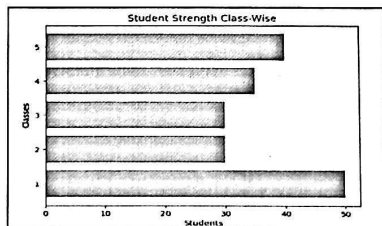
Subjects	Maths	English	Hindi	Science	AI
Marks	70	80	90	80	95



5. Prepare the array for the data set given below and construct its equivalent Bar Chart (given below for reference). Show the output using the matplotlib.pyplot interface. Apply the following in the chart: (3)

- Chart title as "Student Strength Class-Wise"
- X-axis label as "Students"
- Y-axis label as "Classes"

Classes	1	2	3	4	5
Students	50	30	30	35	40



SECTION B (35 marks)

1. Practical File (15)
2. Project (10)
3. Viva Voce (10)



Delhi Public School, Howrah

PERIODIC ASSESSMENT – III (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.	Which of these forms of feedback is the most effective for boosting student learning? (a) Descriptive (b) Verbal (c) Specific (d) Non-verbal	(1)
ii.	Which of the following could be a result of personality conflicts, poor management, reluctance to change or a lack of motivation? (a) Language barriers (b) Cultural barriers (c) Gender barriers (d) Attitudinal barriers	(1)
iii.	The capacity to act without being influenced by other people or circumstances is _____. (a) Self-correction (b) self-awareness (c) self-motivation (d) self-regulation	(1)
iv.	The most important system software for making a computer functional is called _____, which controls and co-ordinates the use of resources among various application programs. It is also known as an interface between the user and the computer hardware. (a) Utility software (b) Operating system (c) Backup utility (d) Disc Manager	(1)
v.	Sumita is working on utility software that helps in the maintenance of the computer system. She has come across tools like Disk defragmenter, Disk cleanup, Compression utility etc. What does disk defragmentation mean? (a) Breaking of computer memory (b) Allocation of resources (c) Management of processes (d) Rejoining of broken files	(1)

vi.	Mary is an entrepreneur and has two employees who work for her. Every day, she spends one hour with them to learn about what they've done that day. What act of an entrepreneur is depicted here? (a) Creates a new product (b) Divides income (c) Manages the business (d) Takes risk	(1)
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Q. 2 Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)

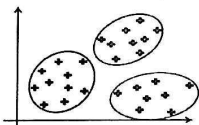
i.	Which of the following is not a domain of AI? (a) Data Science (b) Computer Vision (c) Natural Language Processing (d) Neural Network	(1)
ii.	_____ is responsible for translating digital visual data into descriptions and then turn into a computer-readable language to aid decision making. (a) Computer Vision (b) Pixellab (c) Pixel It (d) Pixar	(1)
iii.	Fill in the blank: _____ is a subset of Artificial Intelligence that enables machines to improve at tasks with experience.	(1)
iv.	When a user installs an app in the smartphone, it asks for access to gallery, contacts, location etc. After granting the access, it gives the user agreement which most users accept without realizing the implications. What is the concern here? (a) Data Privacy (b) Unemployment (c) AI Bias (d) Ethical Concern	(1)
v.	Choose the correct option that represents the five stages of AI project cycle in the correct order. (a) Evaluation → Problem Scoping → Data Exploration → Data Acquisition → Modeling (b) Problem Scoping → Data Exploration → Data Acquisition → Modeling → Evaluation (c) Problem Scoping → Data Acquisition → Data Exploration → Modeling → Evaluation (d) Data Acquisition → Problem Scoping → Data Exploration → Modeling → Evaluation	(1)
vi.	Suresh a data scientist is working on an AI model development project. He is exploring the data being collected for the same. Through which of the following ways data exploration can be done effectively? (a) Problem Scoping (b) Data Visualization (c) Data collection method (d) Web scrapping	(1)

Q. 3 Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)

i.	Answer in one word: Amazon had been working on a secret AI based recruiting tool. The machine-learning specialists uncovered a big problem. The recruiting engine taught itself that male candidates are preferable for recruitment as women are mostly meant for household work. It rejected resumes which were uploaded by women. This led to the failure of the system. This is an example of –	(1)
ii.	Which of the following contributes to the efficiency of an AI project? (a) High model complexity (b) Relevant and authentic training data (c) Minimal processing (d) Limited hardware resources	(1)
iii.	Which of the following represents a machine that is smart but not considered AI enabled? (a) A robotic vacuum cleaner that can navigate and clean floors autonomously (b) A chatbot that engages in natural language conversations and answer questions (c) A digital alarm clock that rings at a set time every morning (d) A smartphone with facial recognition for unlocking the device	(1)
iv.	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 the Testing Data. (b) Data given to an AI model to check accuracy and precision is the Testing Data. (c) Training data and testing data are acquired in the Data Acquisition stage. (d) Training data is always larger as compared to testing data.	(1)
v.	Fill in the blank: _____ is a simple file format that stores data separated by commas.	(1)

vi.	Determine the values of Prediction and Reality for False positive. (a) Prediction = Reality = Yes (b) Prediction = Reality = No (c) Prediction = Yes, Reality = No (d) Prediction = No, Reality = Yes	(1)
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Q. 4 Answer any 5 out of the given 6 questions		(1 x 5 = 5 marks)
i.	_____ is a concept to unify statistics, data analysis, machine learning and their related methods in order to understand and analyse actual phenomena with data. (a) Computer Vision (b) Natural Language Processing (c) Data Science (d) Computer Science	(1)
ii.	Which of the following applications is not associated with Natural Language Processing? (a) Sentiment Analysis (b) Speech Recognition (c) Spam Filtering in emails (d) Stock Market Analysis	(1)
iii.	In NLP, _____ is a model which helps in extracting features out of the text which can be helpful in machine learning algorithms. (a) virtual Reality (b) bag of words (c) stemming (d) normalization	(1)
iv.	What is the main difference between image recognition and object detection? (a) Image recognition identifies the entire image, while object detection finds specific objects within the image. (b) Object detection requires a deeper understanding of the image content compared to image recognition. (c) Image recognition involves labelling the entire image, while object detection assigns labels to individual objects. (d) Object detection utilizes more complex algorithms compared to image recognition.	(1)
v.	Answer in one word: Name the parameter for evaluating a model's performance that is defined as the fraction of positive cases that are correctly identified.	(1)
vi.	In spam email detection, which of the following will be considered as "False Negative"? (a) When a legitimate email is accurately identified as not spam. (b) When a spam email is mistakenly identified as legitimate. (c) When an email is accurately recognized as spam. (d) When an email is inaccurately labelled as important.	(1)

Q. 5 Answer any 5 out of the given 6 questions		(1 x 5 = 5 marks)
i.	Which form of unsupervised learning does the following diagram indicate? 	(1)
	(a) Clustering (b) Regression (c) Reinforcement learning (d) Classification	
ii.	Assertion (A): The term used to refer to the number of pixels in an image is resolution. Reason (R): Resolution in an image denotes the total number of pixels it contains, usually represented as height x width. (a) Both (A) and (R) are true and (R) is the correct explanation for (A). (b) Both (A) and (R) are true and (R) is not the correct explanation for (A). (c) (A) is true but (R) is false. (d) (A) is false but (R) is true.	(1)
iii.	What is the primary need for evaluating an AI model's performance in the AI Model Development process? (a) To increase the complexity of the model	(1)

	(b) To visualize the data (c) To assess how well the chosen model will work in future (d) To reduce the amount of data used for training	
iv.	F1 score will be 1 when _____. (a) both precision and recall is 100% (b) precision is 100% (c) recall is 100% (d) both precision and recall is 0	(1)
v.	Raunak was learning the conditions that make up the confusion matrix. He came across a scenario in which the machine that was supposed to predict an animal was always predicting not an animal. What is this condition called? (a) False Positive (b) True Positive (c) False Negative (d) True Negative	(1)
vi.	Which of the following represents an example of a recommendation system? (a) An online clothing store that offers a wide variety of clothing options (b) A search engine that retrieves relevant web pages based on user queries (c) An e-commerce website that displays customer reviews and ratings for products (d) A music streaming platform that suggests songs and playlists based on user listening history	(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	During a group discussion one participant nods frequently while another crosses their arms. Interpret the potential meanings of these contrasting non-verbal signals and their impact on the discussion.	(2)
Q. 7	Soumi is a marketing manager responsible for launching a new product line. As part of her role, she needs to communicate the marketing strategy to her team and gather feedback on their understanding and input. How does the communication cycle apply to Soumi's situation and why is feedback important in this context?	(2)
Q. 8	Distinguish between internal self-awareness and external self-awareness.	(2)
Q. 9	As a graphic designer, you frequently work on projects that involve creating and editing large image files. You need to organize these files to avoid clutter and ensure that you can find them quickly when needed. To organize your image files, you can use a file naming convention that includes relevant details such as the project name, file type, and date. You can also create folders for each project and store all related files within that folder. a. Why is using a consistent file naming convention important when organizing files? b. Why is it important to back up your files regularly?	(2)
Q.10	'Entrepreneurs are job creators, not job seekers.' Explain.	(2)

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

(2 x 4 = 8 marks)

Q.11	Differentiate between Rule-based and Learning based approaches of AI modelling.	(2)																				
Q.12	A residential complex installed a new AI-powered smart surveillance system. Cameras equipped with computer vision algorithms monitor common areas and individual apartments upon the resident's consent. The system automatically detects suspicious activities like trespassing, loitering, and unauthorized vehicle entry. It is capable of turning the cameras according to the movements it senses and trigger alerts and sends real-time notifications to residents and security personnel. Identify two computer vision applications used in the above surveillance system.	(2)																				
Q.13	Consider the following table: <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Form</th> <th>Affixes</th> <th>Stem</th> <th>Lemma</th> </tr> </thead> <tbody> <tr> <td>Planned</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Changing</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Acting</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Arrived</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> Convert the given form of words into their equivalent stemmed and lemmatized form.	Form	Affixes	Stem	Lemma	Planned				Changing				Acting				Arrived				(2)
Form	Affixes	Stem	Lemma																			
Planned																						
Changing																						
Acting																						
Arrived																						

Q.14	Explain the applications (i) Automatic summarization and (ii) Sentiment Analysis of Natural Language Processing in brief.	(2)
Q.15	Construct the confusion matrix for the following data : <ul style="list-style-type: none"> • the number of true positive = 22 • the number of true negative = 18 • the number of false positive = 12 • the number of false negative = 47 	(2)
Q.16	The population of a village are totally dependent on the farmers for their daily food items. Farmers grow new seeds by checking the weather conditions every year. An AI model is being deployed in the village which predicts the chances of heavy rain to alert farmers which helps them in doing the farming at the right time. Which evaluation parameter out of precision, recall and F1 Score is best to evaluate the performance of this AI model? Explain.	(2)

Answer any 3 out of the given 5 questions in 50– 80 words each

(4 x 3 = 12 marks)

Q.17	In recent years, there has been an increasing concern about the impacts of climate change and other environmental issues on global ecosystem, economy and society. As we delve into the environmental issues on global ecosystems, complexities of addressing these challenges through AI based solution, it is essential to thoroughly examine the various dimensions and implications involved. Explain the 4Ws problem canvas regarding the given scenario.	(4)													
Q.18	Sumedh is preparing his CBSE final project on the topic Computer Vision. He needs to elaborate the various CV algorithms in his project. Explain Sumedh that how the computer vision algorithms – Image segmentation, Feature extraction, Anomaly detection and classification are applicable for the field of medical diagnosis.	(4)													
Q.19	Define the terms stemming and lemmatization. Does the vocabulary of a corpus remain the same before and after text normalization? Why?	(4)													
Q.20	In recent years the term chatbot is a trending and a happening entity. Almost every customer service based platforms these days offer an effective communication through chatbots. Define the term chatbot. Explain the types of chatbots.	(4)													
Q.21	Automated trade industry has developed an AI model which predicts the selling and purchasing of automobiles. During testing, the AI model came up with the following predictions:	(4)													
<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2" rowspan="2">Confusion Matrix</th> <th colspan="2">Reality</th> </tr> <tr> <th>Yes</th> <th>No</th> </tr> </thead> <tbody> <tr> <th rowspan="2">Prediction</th> <th>Yes</th> <td>60</td> <td>25</td> </tr> <tr> <th>No</th> <td>05</td> <td>10</td> </tr> </tbody> </table>		Confusion Matrix		Reality		Yes	No	Prediction	Yes	60	25	No	05	10	
Confusion Matrix				Reality											
		Yes	No												
Prediction	Yes	60	25												
	No	05	10												
(i) How many total tests have been performed in the above scenario?															
(ii) Calculate precision, recall and F1 Score.															



Delhi Public School, Howrah

PERIODIC ASSESSMENT – III (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)
PRACTICAL EXAMINATION

Time:-2 Hours

F.M.-50

General Instructions:

- Please read the instructions carefully
- This Question Paper is divided into 02 sections, viz., Section A and Section B.
- Section A is of 20 marks and is based on the practical activity.
- Section B is of 30 marks and is based on the activity and viva-voce.

SECTION A (20 marks)

Q1. Prepare the table below in LibreOffice Base and perform the following actions:

(a) Create a table named STAFF with specified fields.

(3)

ID	NAME	DEPT	SEX	EXPERIENCE	SALARY
101	SIDDHART	SALES	M	12	30000
104	RAGHAV	FINANCE	M	5	50000
107	NAMAN	RESEARCH	M	10	40000
114	NUPUR	SALES	F	3	45000
109	JANVI	FINANCE	F	9	67000
105	RAMA	RESEARCH	M	10	23000
117	JAMES	SALES	F	3	50000
111	BINOY	FINANCE	F	12	43000
113	SAMUEL	RESEARCH	M	15	25000

(b) Add a new record of Fredrick.

(1)

(c) Display all records in increasing order of experience.

(2)

(d) Update the salary of people by adding 10,000 having experience more than 10 years.

(2)

(e) Display employees that belong to Sales Department.

(2)

(f) Delete the record of staff whose ID 117.

(1)

(g) Delete the table along with contents and structure.

(1)

Q2. Create a table in LibreOffice Calc and perform multiple operations on the given table:

(4)



Delhi Public School, Howrah

PERIODIC ASSESSMENT – III (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.	Choose the correct option to fill in the blank. _____ is the driving force that pushes us to achieve our goals, feel happy and improve our quality of life. a. It is a confidence booster. b. It enhances one's enthusiasm and provides energy to work. c. It also reflects the ability to cheer yourself after disappointments. d. It also cultivates a desire to do something in life.	(1)
ii.	In the questions given below, there are two statements marked as Assertion (A) and Reason (R). Read the statements and 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, but Reason (R) is not the correct explanation of Assertion (A). c. Assertion (A) is true, but Reason (R) is false.	(1)

	d. Bad idea. The dollar symbols mark the references in the cells as Absolute References. Removing these will cause the formula to calculate incorrect values.	
v.	The Fill Handle located at the bottom right hand corner of a selected cell has multiple uses. Which of the following is NOT a function of the Fill Handle? a. Copy a formula from one cell into cells adjacent to it. b. Copy formatting from one cell into cells adjacent to it. c. Enlarge the section of a table containing values. d. Automatically fill sequences such as days of the week, months or numerical values.	(1)
vi.	What is the shortcut key for Styles and Formatting in LibreOffice Writer? a. Ctrl + A b. F5 c. F11 d. F8	(1)

Q. 3	Answer any 5 out of the given 6 questions	(1 x 5 = 5 marks)
i.	Choose the correct option to fill in the blank. _____ controls how graphics are stacked upon each other or relative to the text. a. Arrangement b. Alignment c. Anchoring d. Wrapping	(1)
ii.	Choose the correct option to fill in the blank. _____ 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. Character Style c. Cell Style d. Paragraph Style	(1)
iii.	Which menu contains the option of inserting pictures in a document of LibreOffice Writer? a. Home b. Insert c. View d. Page Layout	(1)
iv.	In Writer, styles option is available under menu. a. Insert b. Tools c. View d. Window	(1)
v.	Solver option under Tools menu amounts to a more elaborate form of _____ the difference is that the Solver deals with equations with multiple _____. a. unknown variables, goals seek b. goal seek, unknown variables c. variables, equation d. subtotal, goal seek	(1)
vi.	Rohan has Rs. 50,000 that he wants to invest in two mutual funds for one year. Fund A is a low risk fund with 18% interest rate and Fund B is a higher risk fund with 21% interest rate. Which feature of spreadsheets (Calc) will help him to decide? a. Solver b. Subtotal c. Linking sheets d. Macros	(1)

Q. 4	Answer any 5 out of the given 6 questions	(1 x 5 = 5 marks)
i.	Which one is not the tab of the insert/index Table window of Writer Document? a. Entries b. Background c. Style d. Row	(1)
ii.	Choose the correct option to fill in the blank. _____ graphic filters modifies the image dramatically. a. Solarisation b. Aging c. Relief d. Posterise	(1)
iii.	Which of the following hazards are the result of physical factors that can cause musculoskeletal injuries? a. Biological hazards b. Safety hazards c. Ergonomic hazard d. Psychosocial hazards	(1)
iv.	Arunabha has created a pamphlet on 'Tour to West India'. He has inserted many images to make it more presentable but the size of images is occupying a lot of space. His friend has suggested him to reduce the size of images. Which of the following options will help his in doing the task without losing any content of the image? a. Recolor b. Docking c. Resize d. Rotate	(1)
v.	Arundhuti has inserted an image in a document. She wants to resize the image. Which option of the word processor image format should be selected to let the two dimensions (height and width) change so that the proportion is maintained, allowing for a scaled resizing?	(1)

	a. Keep ratio	b. Crop	c. Keep aspect	d. Contrast	
vi.	Which of the following Graphic filter is used to increase the contrast of an image in a document?				(1)
	a. Smooth	b. Sharpen	c. Remove Noise	d. Invert	

Q. 5	Answer any 5 out of the given 6 questions	(1 x 5 = 5 marks)
i.	Choose the correct option to fill in the blank. _____ can be used in a spreadsheet software to jump to a different location from within a spreadsheet and can lead to other parts of the current file, to different files or even to web sites. (a) Illustrations (b) Hyperlinks (c) Links (d) Filter	(1)
ii.	Subhasis is a writer. He has just completed writing his book using Writer software. Now he wants to add a page which will contain the title of each chapter and its respective page number. Suggest the feature that can be used to do this task. a. Consolidating b. Templates c. Styles d. Table of contents	(1)
iii.	Kolakhham International School has created a database of students. The table Student consists of fields like AdmissionNo, RollNo, Name, Address, PhoneNo. Another table namely Marks consists of academic records of students in the fields RollNo, Marks1, Marks2, Marks3, Marks4, Marks5. To print the report card, data will be taken from both the tables as the records in both the tables are related to RollNo. What type of relationship exist between the tables Student and Marks? a. One to One b. One to Many c. Many to One d. Many to Many	(1)
iv.	Navin is the manager of a private bank. He wants to see the salary of all the employees to calculate the EPF amount for each of them. Which command helps him to display the salary of all the employees after incrementing by 1000? a. Select b. Update c. Modify d. Change	(1)
v.	Which of the following steps are followed to create a basic Table of Contents? a. Click on Home Table of Contents and Index → Table of Contents, Index or Bibliography Ok button b. Click on Table Table of Contents and Index → Table of Contents, Index or Bibliography Ok button c. Click on Format Table of Contents and Index → Table of Contents, Index or Bibliography → Ok button d. Click on Insert → Table of Contents and Index → Table of Contents, Index or Bibliography → Ok button.	(1)
vi.	RDBMS provides relational operators to manipulate the data. Here, RDBMS refers to - a. Record Database Management System b. Relational Database Management System c. Reference Database Management System d. Rational Database Management System	(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	The operating system (OS) plays a crucial role in file management. What are the responsibilities of an operating system with respect to file management?	(2)
Q. 7	Bhavik has an intent on starting a restaurant in one of their respective places by the name Khana Khazana. Rakhi was against the idea of Bhavik as she felt that people of Pune already have so many options of restaurants that they won't explore new one. What characteristics of a good entrepreneur are Bhavik and Rakhi missing because of which it is taking time for them to come to a conclusion about the venture?	(2)
Q. 8	Effective communication is a combination of skills that can help you convey your message clearly and understand others. What role does non-verbal communication play in effective communication?	(2)

Q. 9	How can we self-motivate ourselves for completing a task which appears to be too large or too complex to be done by us?	(2)
Q.10	What happens during meditation that makes it a useful technique for managing stress?	(2)

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

(2 x 4 = 8 marks)

Q.11	Cell referencing is an essential aspect of creating formulas and functions in LibreOffice Calc. How do we create the reference with the mouse in Calc?	(2)
Q.12	A table named School (containing data of students of the whole school) is created, where each record consists of several fields including AdmissionNo (Admission Number), RollNo (Roll Number), Name. Which field out of these three should be set as the primary key and why?	(2)
Q.13	Neha is working on a document in LibreOffice Writer. She needs to perform the following tasks in Writer. Help her by suggesting the correct options. (i) Increase the space between lines in various paragraphs. (ii) Align the paragraph properly.	(2)
Q.14	Mention the steps to be followed to choose a style for a Word document in LibreOffice Writer?	(2)
Q.15	Fire safety rules are important to know because they can help protect people and property from the devastating effects of fire. State any two basic fire safety rules to be followed in an organisation?	(2)
Q.16	Anika has typed an essay in Writer. How will she identify the grammatical and spelling errors in his document? How will she correct the same?	(2)

Answer any 3 out of the given 5 questions in 50– 80 words each

(4 x 3 = 12 marks)

Q.17	Chandrima wants to know the use of the following terms. Describe them for her. (i) Goal Seek (ii) Scenario (iii) Subtotal (iv) Solver	(4)																														
Q.18	Reeshav wants to know about Data Manipulation language commands. Solve the following queries for him. (i) What is DML? (ii) Explain any three DML commands.	(4)																														
Q.19	Harpreet had inserted an image in a word processor application. Now, she wants to know the use of the following terms. Tell her the correct answer. (i) Arrangement (ii) Anchoring	(4)																														
Q.20	Consider the following table 'APPLICANTS'.	(4)																														
<table border="1"> <thead> <tr> <th>S No</th> <th>P Name</th> <th>S Name</th> <th>Qty</th> <th>Cost</th> <th>City</th> </tr> </thead> <tbody> <tr> <td>S1</td> <td>Biscuit</td> <td>Priyagold</td> <td>120</td> <td>12</td> <td>Delhi</td> </tr> <tr> <td>S2</td> <td>Bread</td> <td>Britannia</td> <td>200</td> <td>25</td> <td>Mumbai</td> </tr> <tr> <td>S3</td> <td>Chocolate</td> <td>Cadbury</td> <td>350</td> <td>40</td> <td>Mumbai</td> </tr> <tr> <td>S4</td> <td>Sauce</td> <td>Kissan</td> <td>400</td> <td>45</td> <td>Chennai</td> </tr> </tbody> </table>			S No	P Name	S Name	Qty	Cost	City	S1	Biscuit	Priyagold	120	12	Delhi	S2	Bread	Britannia	200	25	Mumbai	S3	Chocolate	Cadbury	350	40	Mumbai	S4	Sauce	Kissan	400	45	Chennai
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(i) How many records and fields are there in the table ITEM? (ii) Write the SQL queries to (a) Display all the products whose quantity in between 100 and 350. (b) Display the data for all products sorted by their quantity. (c) To list S_Name, P_Name, Cost for all the products whose quantity is less than 400.																																
Q.21	Anuradha has been appointed as SME in an IT based company. Tell her the following: (i) What is workplace emergency? (ii) Name any four workplace emergencies that may happen.	(4)																														