



**LIONS PUBLIC SCHOOL**  
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**(SESSION: 2025-2026)**

# **WINTER HOLIDAY HOMEWORK**

## **CLASS IX**

### **ENGLISH**

#### **General Instructions:**

Read the instructions very carefully and strictly follow them:

1. This question paper comprises 11 questions. All questions are compulsory.
2. The question paper contains THREE sections –  
Section – A: Reading Skills  
Section – B: Grammar and Creative Writing Skills  
Section – C: Literature Textbook
3. Attempt questions based on specific instructions for each part.
4. All the papers need to be solved in their respective notebooks.

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#### **READING SKILLS**

##### **1. Read the following text.**

I. Vultures play a critical role in the ecosystem as nature's most efficient scavengers, skillfully cleansing the landscape of decaying carcasses. In doing so, vultures clean the ecosystem of dead animal matter and reduce the spread of disease. Their unique ability to digest even the most toxic of pathogens like rabies and anthrax, shields our entire ecosystem from outbreak of epidemics. In the absence of these scavengers, our natural world would be susceptible to the spread of dangerous pathogens.

II. A total of nine species of vultures are found across India. Each of the nine species, from the widespread white rumped vulture to the forest-dwelling red-headed vulture, has a unique place in the ecosystem. Other species such as the Himalayan griffon and the bearded vulture are typically found at higher elevations in the Himalayas, while the Egyptian vulture is found nearly all across the country. The slender-billed vulture lives in the northern plains and Assam valley, while its close relative, the Indian vulture, is distributed across central and peninsular regions of India. Two other species, the cinereous and the Eurasian griffon, are winter visitors to our land.

III. In the 1960s, three of the vulture species – white-rumped, slender-billed and Indian – that were once a common sight across many parts of the country, started to rapidly decline. By 2003, the situation had escalated to a major crisis with their population dropping by more than 90% across their range. The red-headed vulture followed suit to become critically endangered like the other three.

IV. After much research, this alarming decline was attributed to the veterinary use of diclofenac, an anti-inflammatory drug that was commonly administered to livestock across the country. Vultures feeding on livestock carcasses treated with diclofenac suffered from kidney failure, leading to their death.

V. In response to this crisis, an alternative, meloxicam, a drug found safe for vultures, began to be promoted. With vultures becoming the centre of conservation focus, it later became clear that diclofenac was just one of

the many threats. Other veterinary drugs such as ketoprofen and aceclofenac were also found to be lethal to vultures. Recognising this, the two drugs were banned.

VI. Today with the support of govts, conservation NGOs and research institutions, vulture conservation is happening at Vulture Conservation Breeding centres in Pinjore, Haryana, Rajabhatkhawa in Bengal, and Rani in Assam. Additionally, conservation centres were subsequently developed by Central Zoo Authority in collaboration with various state zoos, including Van Vihar in Bhopal, Nandankanan Zoo in Bhubaneswar, Nehru Zoological Park in Hyderabad, Muta Zoo in Ranchi, and Sakkarbaug Zoo in Junagadh.

VII. As we look to the future, it's clear that the story of India's vultures is one of resilience and hope. Through continued conservation efforts, we can ensure that vultures continue to soar across our skies, safeguarding our ecosystems as they have done for millennia.

**Answer the following questions, based on the above passage.**

i. 'Vultures play a critical role in maintaining a healthy balance in the eco system.' Justify the statement.

ii. Why do you think some vulture species, such as the cinereous and Eurasian griffon, are only winter visitors to India?

iii. The resident vultures, like the white-rumped vulture, differ in ecological impact from migratory species like the Eurasian griffon in India because \_\_\_\_\_

iv. Complete the following statement:

Recognising the threat posed by ketoprofen and aceclofenac, \_\_\_\_\_

v. Vultures feeding on livestock carcasses treated with diclofenac suffered from which ailment that led to their death?

vi. What does "breeding" refer to in the context of "Vulture Conservation Breeding centres"?

a) Feeding vultures

b) Providing medical care

c) Encouraging reproduction

d) Releasing vultures into the wild

vii. According to the passage, what has led to the decline of vultures in India?

viii. What tone does the author use while discussing the future of vultures in India?

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## 2. Read the text given below:

I. Over the past two decades, India has experienced significant changes in its transportation and mobility landscape. The number of registered vehicles increased from 55 million in 2003 to more than 295 million by 2023, a nearly fivefold rise. The growth has been driven largely by the proliferation of two-wheelers, which made up over 75% of all vehicles in India by 2023, reflecting their affordability and utility in both urban and rural areas.

II. A key transformation has been the rise of electric vehicles (EVs). In 2013, EV adoption was minimal, with fewer than 5,000 electric vehicles sold annually. By 2023, more than 1.6 million electric vehicles, including 1.1 million electric two-wheelers, were on Indian roads, spurred by government incentives and increasing environmental concerns.

III. The expansion of public transportation has also been notable. In 2003, India had only one metro rail system, located in Kolkata. By 2023, 20 cities across the country had operational metro networks, including Delhi, Mumbai, and Bengaluru. The Delhi Metro, which started in 2002, saw its daily ridership grow from 1 million passengers in 2003 to over 2.9 million passengers in 2023, playing a critical role in easing urban congestion.

IV. Air travel in India has surged as well. Domestic air passengers grew from 44 million in 2003 to more than 185 million in 2023, thanks to the expansion of low-cost airlines and greater connectivity between cities.

V. These shifts highlight India's transition towards more diverse, sustainable, and efficient transportation modes over the last two decades, driven by economic growth, technological advancements, and urbanization.

**Answer the following questions, based on the above passage.**

i. By the use of the phrase ‘proliferation of two-wheelers’, what does the writer indicate about the role of two wheelers in para 1?

- A) Two-wheelers have been replaced by other modes of transport.
- B) Two-wheelers have significantly increased in number and have become a dominant mode of transport.
- C) Two-wheelers are no longer affordable for the general population.
- D) Two-wheelers are primarily used for long-distance travel across the country.

ii. Select the option that is true for the assertion and reason given below

Assertion (A): The expansion of metro rail networks in India has significantly helped in reducing urban congestion.

Reason (R): By 2023, 20 cities in India had operational metro networks, with the Delhi Metro's daily ridership growing from 1 million passengers in 2003 to over 2.9 million passengers in 2023.

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

iii. Which word in Paragraph 1 means the same as ‘movement’?

iv. In what ways has the expansion of metro rail networks, such as in Delhi, contributed to reducing traffic congestion and pollution in urban areas?

v. According to the passage \_\_\_\_\_ has caused an increase in Air travel in India.

vi. Which of the following factors has NOT contributed to the rise in electric vehicle adoption in India?

- A) Government incentives
- B) Increased environmental awareness
- C) Decrease in fuel prices
- D) Technological advancements in battery life

vii. How has public transport affected social mobility in the country in past two decades?

viii. By how many millions the daily metro ridership of passengers grew between 2003-2023?

- A) 1.0 million
- B) 2.9 million
- C) 1.9 million
- D) 0.5 million

ix. What do you understand by the expression ‘domestic air passengers’ in the sentence given below? ‘Domestic air passengers grew from 44 million in 2003 to more than 185 million in 2023.’

### GRAMMAR

**3. Complete any ten of twelve of the following tasks, as directed.**

i. Fill in the blank with the correct option to complete the opening line of a formal letter:

Dear Sir,

We \_\_\_\_\_ to announce the grand opening of a new branch of our company in CR Colony, Mumbai on Nov 10, 20xx.

- A. are glad
- B. have been glad
- C. has been glad
- D. am glad

ii. Read the given sentence from a school report. Identify the error and supply the correction in the given format.

We are dedicated to fostering a love of knowledge; promote academic excellence, and cultivating leadership skills in our high school students.

ERROR \_\_\_\_\_ CORRECTION \_\_\_\_\_

iii. Salma asked the following question to her friend, Sahil.

Have you completed the task given by the teacher yesterday?

Report Salma's question correctly.

iv. Fill in the blank by choosing the correct option, to complete an official announcement.

Dear Parents,

It has been observed that many students are coming to school late.

Please ensure \_\_\_\_\_ (that/these/this) your child reaches school by 8.00 a.m. sharp.

v. Read David's reply to a customer, regarding an issue he/she has been facing.

"I'm sorry for the trouble you've encountered. We're here to help."

Report David's reply by completing the following sentence correctly.

David apologised for the trouble encountered and said \_\_\_\_\_.

vi. Identify and correct the error in the given line taken from an online news report:

Indian Ocean warming has reduce rainfall, says Study.

**Option No. Error Correction**

- |   |          |         |
|---|----------|---------|
| A | says     | say     |
| B | rainfall | rain    |
| C | reduce   | reduced |
| D | has      | have    |

vii. Complete the given announcement by selecting the correct option to fill in the blank.

We are happy to announce that our daughter Kusum \_\_\_\_\_ her graduation from the University of Delhi.

- A. completes
- B. complete
- C. has completed
- D. have completed

viii. Detect the error and supply the correction for the given observation by a statement from a story.

In a peaceful village nestled between the mountains, two friends, Raj and Sam, live side by side.

ERROR \_\_\_\_\_ CORRECTION \_\_\_\_\_

ix. Report the dialogue between a teacher and a student, by completing sentence.

Teacher: "Can you finish this by 5 PM?" he asked.

Student: "I will try my best," she replied.

The teacher asked if the student could finish that work by 5 pm to which the student

\_\_\_\_\_.

x. Select the correct option to complete the given sentence.

She \_\_\_\_\_ swim very fast when she was younger.

- A. will
- B. could

C. should

D. can

xi. Complete the given sentence about an office report.

The report \_\_\_\_\_ submitted on Monday.

A. are

B. has

C. was

D. were

xii. Read the conversation about research project, between a teacher and a student:

Teacher: "Why did you choose this topic for your research project?"

Student: "I find the subject fascinating, and there's a gap in the existing research that I want to address."

Report the student's response by completing the following.

The teacher inquired why the student \_\_\_\_\_ for the research project.

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### CREATIVE WRITING SKILLS

**Q4.** You and your friends recently explored the picturesque beaches of Goa, known for their vibrant atmosphere and stunning sunsets. Write a descriptive paragraph about your trip in 100–120 words.

**OR**

You spent a week with your aunt in your hometown, where she taught you about gardening and cooking. Write a descriptive paragraph about your aunt in 100–120 words.

**Q5.** Complete the following story and give it a title also- (100–120 words)

In a small village, there was a wise old woman known for her herbal remedies. One day...

**OR**

You are Ashima / Aakash studying in class IX. On your way back to home, you helped an elderly person who had fallen on the street. Write a diary entry about this experience in about 100–120 words.

### LITERATURE

**Q6.** Read the given extracts and answer any one of the two questions given below.

**(The Fun They Had)**

Margie always hated school, but now she hated it more than ever. The mechanical teacher had been giving her test after test in geography and she had been doing worse and worse until her mother had been shaken her head sorrowfully and sent for the County Inspector.

*(The Fun They Had)*

i. Which of the following statements best describes Margie's feelings towards her schooling situation?

A) Margie enjoyed the challenges presented by her mechanical teacher.

B) Margie was indifferent to her performance in geography tests.

C) Margie's dislike for school increased due to her poor performance on tests.

D) Margie's mother was pleased with her progress in geography.

ii. What action did Margie's mother take in response to Margie's declining performance in geography?

iii. Fill in the blank suitably:

Margie's increased dislike for school was primarily due to \_\_\_\_\_

iv. In what ways did Margie's declining performance in geography tests affect her overall attitude towards school, and what steps did her mother take to seek help for her situation after noticing Margie's distress?

**OR**

A group of dragon-flies were bustling about on their gaudy purple wings, intercepting the flight of a lone black bee or butterfly in search of sweetness from the flowers. The child followed them in the air with his gaze, till one of them would still its wings and rest, and he would try to catch it. But it would go fluttering, flapping, up into the air, when he had almost caught it in his hands. Then his mother gave a cautionary call: "Come, child, come, come on to the footpath."

*(The Lost Child)*

i. Fill in the blank with the correct word from the bracket.

In the passage, the word "gaudy" is used to describe the wings of the dragon-flies. Based on the context, "gaudy" most likely means \_\_\_\_\_.  
(delicate and fragile / Bright and showy)

ii. What action does the child take in response to the dragon-flies' flight, and how does this reflect his character?

- A) He stands still, observing them quietly, showing patience.
- B) He tries to catch a dragon-fly, demonstrating his curiosity and playfulness.
- C) He ignores the dragon-flies, focusing on the flowers instead.
- D) He calls for his mother, indicating his dependence on her.

iii. In what way does the mother's cautionary call illustrate her role in the child's experience? Answer in about 40 words.

iv. How does the description of the dragon-flies' wings contribute to the overall mood of the passage?

**7. Read the given extracts and answer the questions for any one of the two, given.**

*There, look what you did — you threw them all down.*

*You tore the pages of the books.*

*You brought rain again.*

*You're very clever at poking fun at weaklings.*

*Frail crumbling houses, crumbling doors, crumbling rafters,*

*crumbling wood, crumbling bodies, crumbling lives,*

*crumbling hearts —*

*(Wind)*

i. What theme is primarily reflected in the lines mentioning "crumbling houses, crumbling doors, crumbling rafters," and similar phrases?

- A) The strength of nature
- B) The fragility of life and structures
- C) The beauty of resilience
- D) The joy of childhood play

ii. What does the term "crumbling" suggest about the houses and lives mentioned in the passage?

iii. Fill in the blank with the correct word from the bracket.

The poem reflects on the struggle against \_\_\_\_\_ (construction / destruction) and the pain it brings.

iv. How do the phrases describing crumbling structures contribute to the poem's overall message about life?

**OR**

*I will arise and go now, for always night and day*

*I hear the lake water lapping with low sounds by the shore;*

*While I stand on the roadway, or on the pavements grey,*

*I hear it in the deep heart's core*

*(The Lake Isle of Innisfree)*

i. What does the phrase "I hear it in the deep heart's core" suggest about the speaker's connection to the lake?

- A) The speaker feels indifferent to the lake's sounds.
- B) The sounds of the lake resonate deeply within the speaker.
- C) The speaker only hears the lake when they are near it.
- D) The lake represents a distant memory for the speaker.
- ii. What literary device is employed in the phrase "the lake water lapping with low sounds by the shore," and what effect does it create?
- iii. Why does the speaker feel compelled to "arise and go now"?
- iv. Fill in the blank with the correct word from the bracket.

As the poet stands on the roadway or the grey pavement, the \_\_\_\_\_ (disassociation / connection) to the lake feels profound.

**8. Answer any four of the following five questions, in about 40–50 words.**

- i. How do you think Evelyn's hard work and outreach programs affect deaf children's views on what they can achieve? (*The Sound of Music*)
- ii. How does Santosh's determination to live life on her own terms reflect her views on traditional societal norms? and what actions does she take to challenge those norms? (*Reach For The Top*)
- iii. How does the speaker's message about hate and conflict make us think about our own actions in relationships with others? Explain. (*No Men Are Foreign*)
- iv. How does Kalam's experience during World War II and his friendships show the themes of strength and togetherness despite differences in background? (*My Childhood*)
- v. What do you think the poet means by saying "No motion has she now, no force," and how does this relate to his understanding of mortality? (*A Slumber Did My Spirit Seal*)

**9. Answer any two of the following three questions, in about 40–50 words.**

- i. How does the Happy Prince's understanding of happiness and sorrow change after his death and mention the first action that he takes to address the suffering he sees in his city?
- ii. Why was Johnsy so eager to see the last leaf fall, and how does it relate to her feelings about her health? (*The Last Leaf*)
- iii. How does the author feel about starting high school and how does his old teachers help them during this time? (*A House is Not a Home*)

**10. Answer any one of the following two questions, in about 100–120 words.**

A. The chapter "The Little Girl" ends on the following note –

"What's the matter?" asked her father.

"Another dream?"

"Oh," said the little girl, "my head's on your heart. I can hear it going. What a big heart you've got, Father dear."

Elucidate on the significance of the ending with respect to emotional connection and character development of the father and the little girl.

**OR**

B. Explore the themes related to choices, growth and the consequences of actions with reference to the poems "*The Road Not Taken*" by Robert Frost and "*On Killing a Tree*" by Gieve Patel.

**11. Answer any one of the following two questions, in about 100–120 words.**

A. In the story "*The Beggar*," Lushkoff undergoes several transformative experiences that reveal different aspects of his character. Elaborate the character traits that emerge during the course of his journey through the chapter.

**OR**

B. Explore the significance of wisdom and foresight as the most essential qualities of the guru's character and discuss how these traits shape his actions and influence those around him.

(*In The Kingdom of Fools*)

# HINDI

विषय - हिंदी

सामान्य निर्देश - • इस प्रश्नपत्र में चार खंड हैं - खंड 'क', 'ख', 'ग' और 'घ'।

- सभी खंडों के प्रश्नों के उत्तर देना अनिवार्य है।
- यथासंभव सभी खंडों के प्रश्नों के उत्तर क्रमशः लिखिए।

## खंड - 'क' (अपठित बोध)

1) निम्नलिखित गद्यांश पर आधारित पूछे गए प्रश्नों के उत्तर दीजिये - (7)

जल और मानव-जीवन का संबंध अत्यंत घनिष्ठ है। विश्व की प्रमुख संस्कृतियों का जन्म बड़ी-बड़ी नदियों के किनारे ही हुआ है। बचपन से ही हम जल की उपयोगिता, शीतलता और निर्मलता के कारण उसकी ओर आकर्षित होते रहे हैं। हम जलाशयों को देखते ही मचल उठते हैं, उसमें तैरने के लिए आज सर्वत्र सहस्रों व्यक्ति प्रतिदिन सागरों, नदियों और झीलों में तैरकर मनोविनोद करते हैं और साथ ही अपना शरीर भी स्वस्थ रखते हैं। स्वच्छ और शीतल जल में तैरना तन को स्फूर्ति ही नहीं, मन को शांति भी प्रदान करता है। तैराकी आनन्द की वस्तु होने के साथ-साथ हमारी आवश्यकता भी है। प्राचीनकाल आदमी को तैरकर ही नदियों को पार करना पड़ता था। किन्तु तैरने के लिए आदिम मनुष्य को निश्चय ही प्रयत्न और परीश्रम करना पड़ा होगा, क्योंकि उसमें अन्य प्राणियों की भाँती तैरने की जन्मजात क्षमता नहीं है। जल में मछली आदि जल जीवों को स्वच्छद विचरण करते देख मनुष्य ने उसी प्रकार तैरना सीखने का प्रयत्न किया और धीरे-धीरे उसने इस कार्य में इतनी निपुणता प्राप्त कर ली की आज तैराकी एक कला के रूप में गिनी जाने लगी।

(i) जल के किन गुणों के कारण मनुष्य आकर्षित होता है ?

- (क) रंग, उपलब्धता और शुद्धता, (ख) गहराई, पवित्रता और उष्णता  
(ग) उपयोगिता, शीतलता और निर्मलता (घ) ऊँचाई, सुलभता और उपयोगिता

(ii) तैराकी से लोगों को क्या लाभ मिलता है? (1)

(क) शरीर स्वस्थ रहता है।, (ख) मन को शांति मिलती है।, (ग) लोग धन कमाते हैं। (घ) 'क' तथा 'ख' दोनों।

(iii) निम्नलिखित कथन (A) तथा कारण (R) को ध्यानपूर्वक पढ़िये। उसके बाद दिए गए विकल्पों में से कोई एक सही विकल्प चुनकर लिखिए।

कथन (A): तैरना एक अच्छा व्यायाम है।

कारण (R): स्वच्छ और शीतल जल में तैरना तन को स्फूर्ति और मन को शांति प्रदान करता है।

(क) कथन (A) तथा कारण (R) दोनों गलत हैं।

(ख) कथन (A) गलत है, लेकिन कारण (R) सही है।

(ग) कथन (A) सही है, लेकिन कारण (R) उसकी गलत व्याख्या करता है।

(घ) कथन (A) तथा कारण (R) दोनों सही हैं तथा कारण (R) कथन (A) की सही व्याख्या करता है।

(iv) आदिम मनुष्य को तैरने की प्रेरणा किससे मिली होगी? (2)

(v) तैरने से क्या लाभ है? (2)

2 - निम्नलिखित गद्यांश पर आधारित पूछे गए प्रश्नों के उत्तर दीजिये - (7)

आदर्श विद्यार्थी को कुछ भी कठिन या असम्भव नहीं समझना चाहिये, क्योंकि परीश्रम तो उसका सहयोगी है। वह उदयम करेगा, तो निश्चय ही सफलता उसका चरण चूमेगी। पुरुषार्थी के लिए प्रत्येक असम्भव कार्य भी सम्भव तथा कठिन कार्य भी सरल हो जाता है। आदर्श विद्यार्थियों को अपने विद्यार्थी-जीवन में कभी भी सुख की कामना की कामना नहीं करनी चाहिए, तभी वह अपने लक्ष्य की प्राप्ति कर सकता है, तभी विद्या उसके व्यक्तित्व का अंग बन सकती है। सभी विद्यार्थियों को यह मन में धारण कर लेना चाहिए। सुख की कामना और विद्या की प्राप्ति, ये दोनों दो विरोधी बातें हैं। सुख चाहने वाले को विद्या नहीं मिल सकती और विद्या चाहने वाले को तत्क्षण सुख की प्राप्ति असंभव है। निरंतर परीश्रम ही विद्या-प्राप्ति का मूलमंत्र है। यदि कोई यह सोचे कि मैं परीश्रम न करूँ और मैं सुखी हो जाऊँगा, तो यह उसकी भूल है। आलसी पड़े रहने में कोई सुख नहीं, प्रत्युत इससे दुःख, निराशा और बुरी भावनाएँ आकर घेर लेती हैं। वे सभी मनुष्य को पथभ्रष्ट करने में तथा उसके भविष्य को पथभ्रष्ट करने में तथा उसके भविष्य को अंधकारमय करने में अपनी महत्वपूर्ण भूमिका निभाती हैं।

(i) लेखक ने परीश्रम को किसका सहयोगी बताया है ? 1

(क) आदर्श विद्यार्थी का (ख) आज्ञाकारी विद्यार्थी का (ग) मृदु भाषी विद्यार्थी का (घ) स्वस्थ विद्यार्थी का

(ii) किसमें कोई सुख नहीं मिलता ? 1

(क) आलसी पड़े रहने (ख) परीश्रम करने में (ग) समय का सदुपयोग करने में (घ) सत्य बोलने में

(iii) कथन (A) और कारण (R) को पढ़कर उपयुक्त विकल्प चुनिए- 1

कथन (A): सफलता आदर्श एव परीश्रमी विद्यार्थी के चरण चुमती है।

कारण (R): पुरुषार्थी के लिए प्रत्येक असंभव कार्य भी संभव तथा कठिन कार्य भी सरल हो जाता है।

(क) कथन (A) तथा कारण (R) दोनों गलत हैं।

(ख) कथन (A) गलत है, लेकिन कारण (R) सही है।

(ग) कथन (A) सही है, लेकिन कारण (R) उसकी गलत व्याख्या करता है।

(घ) कथन (A) तथा कारण (R) दोनों सही हैं तथा कारण (R) कथन (A) की सही व्याख्या करता है।

(iv) आदर्श विद्यार्थी के लिए कोई भी कार्य असंभव क्यों नहीं होता ? 2

(v) विद्या प्राप्ति का मूलमंत्र क्या है ? 2

### खंड - 'ख' (व्याकरण)

3) निम्नलिखित 'शब्द और पद' पर आधारित तीन प्रश्नों में से किन्हीं दो प्रश्नों के उत्तर दीजिये - (1x2=2)

(i) वाक्य में प्रयुक्त होने वाला हर शब्द क्या कहलता है ?

(ii) विवेक अपने घर चला गया। - वाक्य में रेखांकित पद का नाम बताइए।

(iii) 'शब्द' किसे कहते हैं ?

4) निम्नलिखित 'अनुस्वार और अनुनासिक' पर आधारित तीन प्रश्नों में से किन्हीं दो के उत्तर दीजिये - (1x2=2)

(i) उच्चारण करते समय जब हवा मुख और नासिका दोनों से निकलती है तो उस वर्ण के ऊपर किस चिह्न का प्रयोग किया जाता है ?

(ii) 'त' वर्ण का पंचम वर्ण कौन - सा है ?

(iii) 'पड़कज' का मानक रूप लिखिये।

5) निम्नलिखित 'उपसर्ग और प्रत्यय' पर आधारित पाँच प्रश्नों में से किन्हीं चार प्रश्नों के उत्तर दीजिये - (1x4=4)

- (i) 'प्रत्येक' शब्द में कौन - सा उपसर्ग लगा है ?
- (ii) 'पुष्पित' शब्द में कौन - सा प्रत्यय प्रयुक्त है ?
- (iii) 'अत्यधिक' शब्द में कौन - सा उपसर्ग प्रयुक्त है ?
- (iv) 'दुर्भावना' शब्द में कौन - सा उपसर्ग प्रयुक्त है ?
- (v) उपसर्ग और प्रत्यय दोनों के योग से बने दो शब्द लिखिये ।

6) निम्नलिखित 'संधि' पर आधारित चार प्रश्नों में से किन्हीं तीन प्रश्नों के उत्तर दीजिये - (1x3=3)

- (i) 'अ + इ = ए' स्वर संधि के किस भेद को व्यक्त करता है ?
- (ii) 'इ + अ = य' किस संधि का सूत्र है ?
- (iii) 'नदयर्पण' का संधि - विच्छेद कीजिये तथा संधि का भेद भी बताइए ।
- (iv) निम्नलिखित शब्दों की संधि कीजिये -

भू + उन्नति , सु + अल्प

7) निम्नलिखित विराम चिह्न पर आधारित तीन प्रश्नों में से किन्हीं दो प्रश्नों के उत्तर दीजिये - (1x2=2)

- (i) वाक्यों में शब्दों को संक्षिप्त रूप में लिखने के लिए किस चिह्न का प्रयोग किया जाता है ?
- (ii) (;) कोष्ठक में दिये गए गए विराम चिह्न का नाम बताइए ।
- (iii) प्रसन्नता, दुख, आश्चर्य आदि भाव व्यक्त करने वाले वाक्यों में किस विराम - चिह्न का प्रयोग होता है ?

8) 'अर्थ के आधार पर वाक्य भेद' पर आधारित चार प्रश्नों में से किन्हीं तीन प्रश्नों के उत्तर दीजिये- (1x3=3)

- (i) 'ईश्वर तुम्हें सफलता प्रदान करे।' अर्थ की दृष्टि से वाक्य भेद लिखिये ।
- (ii) 'आज बारिश हो रही है।' - वाक्य को संदेहवाचक वाक्य में बदलिए ।
- (iii) अर्थ के आधार पर वाक्य के कितने भेद होते हैं ? (iv) 'यदि तेज़ चलते , तो बस पकड़ लेते।' - अर्थ की दृष्टि से वाक्य भेद बताइए ।

खंड - 'ग' (पाठ्यपस्तक एव परक पाठ्यपस्तक)

9) निम्नलिखित गद्ययांश पर आधारित पूछे गए प्रश्नों के उत्तर दीजिये- (1x5=5)

जब अप्रैल में मैं बेस कैंप में थी, तेनजिंग अपनी सबसे छोटी सुपत्री डेकी के साथ हमारे पास आए थे। उन्होंने इस बात पर विशेष महत्व दिया की दल के प्रत्येक सदस्य और प्रत्येक शेरपा कुली से बातचीत की जाए। जब मेरी बारी आई, मैंने अपना परिचय यह कहकर दिया कि मैं बिल्कुल ही नौसिखिया हूँ और एवरेस्ट मेरा पहला अभियान है। तेनजिंग हँसे और मुझसे कहा कि एवरेस्ट उनके लिए भी पहला अभियान है, लेकिन यह भी स्पष्ट किया की शिखर पर पहुँचने से पहले उन्हें सात बार एवरेस्ट पर जाना पडा था। फिर अपना हाथ मेरे कन्धे पर रखते हुए उन्होंने कहा, "तुम एक पक्की पर्वतीय लड़की लगती हो। तुम्हें तो शिखर पर पहले ही प्रयास में पहुँच जाना चाहिए।"

(i) बेस कैंप में आरोहियों से मिलने कौन आया ?

(क) कर्नल खुल्लर आए थे ।

(ख) तेनजिंग अपनी छोटी बेटा डेकी के साथ आए थे ।

(ग) शेरपा कुली आए थे।

(घ) इनमें से कोई नहीं।

(ii) आगन्तुक ने किस बात का विशेष ध्यान रखा ?

(क) दल के हर सदस्य से बात की जाए।

(ख) केवल कुछ खास लोगो से बात की जाए।

(ग) हर शेरपा कुली से बात की जाए।

(घ) 'क' और 'ग' सही है।

(iii) लेखिका ने आगन्तुक को अपना परिचय कैसा दिया ?

(क) मैं स्वस्थ और निडर हूँ।

(ख) खतरों से खेलना जानती हूँ।

(ग) मैं नौसिखिया हूँ।

(घ) मुझे पर्वतारोहण की उचित जानकारी है।

(iv) पाठ के लेखक/लेखिका का नाम है -

(क) यशपाल (ख) बचेंद्री पाल (ग) शरद जोशी (घ) धर्मवीर भारती

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

कथन (A): बचेंद्री पाल एवरेस्ट अभियान में भाग लेने से घबरा रही थी।

कारण (R): बचेंद्रीपाल नौसिखिया थी और एवरेस्ट पर उसका पहला अभियान था।

(क) कथन (A) तथा कारण (R) दोनों गलत हैं।

(ख) कथन (A) गलत है, लेकिन कारण (R) सही हैं।

(ग) कथन (A) सही है, लेकिन कारण (R) उसकी गलत व्याख्या करता है।

(घ) कथन (A) तथा कारण (R) दोनों सही हैं तथा कारण (R) कथन (A) की सही व्याख्या करता है।

10- निम्नलिखित चार प्रश्नों में से किन्हीं तीन प्रश्नों के उत्तर लगभग 25 से 30 शब्दों में दीजिये -  
(2x3=6)

(क) बचेंद्री पाल का चरित्र -चित्रण अपने शब्दों में कीजिये।

(ख) उनके लिए सरकारी सुविधाओं से सरस्वती की साधना ही अधिक महत्वपूर्ण थी।" 'वैज्ञानिक चेतना के वाहक चन्द्रशेखर वेंकट रामन' पाठ के आधार पर स्पष्ट कीजिये। (ग) गांधी जी के जीवन में महादेव भाई का क्या स्थान था ? पाठ 'शक्रतारे के समान' के आधार पर स्पष्ट कीजिये।

(घ) 'तम कब जाओगे, अतिथि' व्यंग्य पर आधारित एक कहानी है। इस पाठ के माध्यम से लेखक क्या संदेश देना चाहते हैं ?

11 – निम्नलिखित पद्यांश पर आधारित पूछे गए प्रश्नों के उत्तर दीजिये - (1x5=5)

यहीं इस गली में बनती हैं, मुल्क की मशहुर अगरबतियाँ इन्हीं गंदे मुहल्लों के गन्दें लोग, बनाते हैं केवड़ा गुलाब खस और रातरानी अगरबतियाँ दुनिया की सारी गंदगी के बीच, दुनिया की सारी गंदगी के बीच, दुनिया की सारी खुशबू रचते हैं हाथ, खुशबू रचते हैं हाथ, खुशबू रचते हैं हाथ ।

(i) मुल्क की मशहुर अगरबतियाँ कौन बनाते हैं?

(क) साफ़- सुथरे लोग (ख) गरीब लोग (ग) गंदे-मुहल्लों के गंदे लोग (घ) अमीर लोग

(ii) यहाँ के लोग किस प्रकार की सुगंध वाली अगरबतियाँ बनाते हैं ?

(क) गुलाब (ख) केवड़ा (ग) खस व रातरानी (घ) तीनों सही हैं

(iii) इस काव्यांश का संदेश है-

(क) गंदे लोगो को अगरबतियाँ बनाना पसंद है।

(ख) गरीब लोग स्वयं गंदगी में रहकर दूसरों के जीवन में खुशियाँ फैलाते हैं।

(ग) गंदे मुहल्लों में रहने वाले गंदे लोगों का चित्रण करना

(घ) समाज में व्याप्त समस्याओं का वर्णन करना

(iv) कविता की भाषा है-

(क) ब्रज (ख) अवधी (ग) खड़ी बोली (घ) सधुक्कड़ी

(v) उपर्युक्त काव्यांश के सम्बन्ध में कौन -सा कथन असत्य है?

(क) गंदे मुहल्लों में रहने वाले गंदे लोग गुलाब, केवड़ा, खस तथा रातरानी जैसे फूल उगाते हैं ।

(ख) देश की प्रसिद्ध अगरबतियाँ गंदी गलियों में बनती हैं।

(ग) गंदे लोग खुशबूदार फूलों वाले बगीचे में रहते हैं ।

(घ) अगरबतियाँ बनाने वाले लोग प्रायः गरीब होते हैं।

12 – निम्नलिखित चार प्रश्नों में से किन्हीं तीन प्रश्नों के उत्तर लगभग 25 से 30 शब्दों में दीजिये - (2x3= 6)

(i) 'अग्निपथ' कविता का प्रतिपाद्य लिखिए ।

(ii) 'खुशबू रचते हैं हाथ' कविता के आधार पर स्पष्ट कीजिए कि किस प्रकार दुख - दर्द में सुख और आनन्द तथा दुर्गंध के बीच सुगंध का सर्जन होता है।

(iii) 'रहिमन फाटे दूध को, मथे न माखन होय' से रहीम ने लोगो को क्या समझाने का प्रयास किया है ?

(iv) कवि ने ' नए इलाके में' कविता में शहरों में होने वाले किन परिवर्तनों की ओर इशारा किया है ?

13 – निम्नलिखित तीन प्रश्नों में से किन्हीं दो प्रश्नों के उत्तर दीजिये - (4x2=8) (क) 'सत्यार्थ प्रकाश' और 'स्वामी दयानंद सरस्वती की जीवनी' का लेखक पर क्या प्रभाव पड़ा ? इन पुस्तकों ने लेखक की चिन्तन - धारा और तार्किकता को किस प्रकार प्रभावित किया किया ?

(ख) "माँ की गोद की याद आती थी । जी चाहता था की माँ आकर छाती से लगा ले और लाड - प्यार करके कह दे की कोई बात नहीं, चिट्ठीयाँ फिर लिख ली जाएगी ।" लेखक को माँ की गोद की याद क्यों आई ? 'स्मृति' पाठ के आधार पर लिखिए ।

(ग) किसी भी भी राज्य में बाहरी लोगो के आने से कुछ समस्याए उत्पन्न होती हैं तो कुछ अच्छा भी होता है । - इस कथन के सन्दर्भ में त्रिपुरा की स्थिति स्पष्ट कीजिये ।

खंड - 'घ' (रचनात्मक लेखन )

14- निम्नलिखित में से किसी एक विषय पर दिए गए संकेत बिन्दुओं के आधार पर लगभग 120 शब्दों में एक अनुच्छेद लिखिए - (5)

(i) जीवन में मनोरंजन का महत्व

संकेत बिंदु - मनोरंजन से जीवन में आनंद और उत्साह का संचार, मनोरंजन से मानसिक शक्ति का विकास, मनोरंजन करना मानव का स्वभाव।

(ii) समाचार-पत्रों की उपयोगिता -

संकेत बिंदु - सूचना प्राप्ति का महत्वपूर्ण साधन, प्रचार-प्रसार का महत्वपूर्ण साधन, व्यापार और विज्ञापन का साधन, ज्ञानवर्धक, मनोरंजन से भरपूर।

(iii) सच्ची मित्रता

संकेत बिंदु - मित्रता जीवन की अनिवार्य आवश्यकता, योग्य मित्र का चुनाव, सच्चा मित्र पाना जीवन का सौभाग्य, कुसंगति से बचाव ।

15. वार्षिक परीक्षा की समुचित तैयारी का सुझाव देते हुए अपने छोटे भाई को लगभग 100 शब्दों में एक पत्र लिखिए (5)

अथवा

समय की उपयोगिता बताते हुए अपने पत्र को लगभग 100 शब्दों में एक पत्र लिखिए ।

16- चित्र में दिखाए गए दृश्य घटना का कल्पना शक्ति के आधार पर लगभग 100-120 शब्दों में वर्णन कीजिये । (5)



17- दो मित्र स्वच्छ भारत अभियान में भाग लेना चाहते हैं, उनके बीच हुए वार्तालाप को लगभग 100 शब्दों में संवाद के रूप में लिखिए । (5)

अथवा

विद्यालय में विलम्ब से पहुँचने पर अध्यापक और विद्यार्थी के मध्य होने वाले वार्तालाप को लगभग 100 शब्दों में संवाद के रूप में लिखिए ।

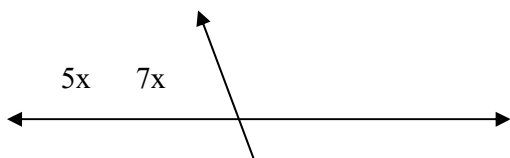
## MATHS

General Instructions:

- 1 All questions are compulsory.

### SECTION A (1 marks)

1. Find the value of  $64^{\frac{1}{3}} \div 32^{\frac{1}{5}}$ .
2. If a polynomial is given by  $p(x) = 2x^2 + 5x - 3$ , then find the value of  $p(2) \times p(3)$ .
3. Find the distance of the point  $(2, -1)$  from y-axis.
4. Find the value of  $x$  from the given figure:



5. At how many points two distinct lines drawn in a plane can intersect?
6. Two coins are tossed simultaneously. Find the probability of getting two heads.

### SECTION B (2 marks)

7. Factorise  $(p - q)^3 + (q - r)^3 + (r - p)^3$ .
8. State any two Euclid's Postulates.
9. Find the area of an isosceles triangle whose equal sides are of length 15 cm each and the third side is 12 cm.
10. Find the volume of a hemisphere of radius 2 km.
11. If the lateral surface of a cylinder is  $94.2 \text{ cm}^2$  and its height is 5 cm, then find its radius.
12. Find the median of the first 10 prime natural numbers.

### SECTION C (3 marks)

13. If  $a$  and  $b$  are two real numbers, then find the values of these numbers  $a$  and  $b$  if

$$\frac{5 + \sqrt{6}}{5 - \sqrt{6}} = a + b\sqrt{6}$$

14. Simplify the following:

$$\left[\frac{x^a}{x-b}\right]^{a-b} \cdot \left[\frac{x^b}{x-c}\right]^{b-c} \cdot \left[\frac{x^c}{x-a}\right]^{c-a}$$

15. Draw the graph of linear equation  $x + 3y = 6$ . Find the points where the line meets the two axes.
16. Plot the points  $(-4, 2)$ ,  $(4, 2)$  and  $(0, 4)$  on the graph paper. Join these points. Name the figure obtained and find the area of the figure obtained.
17. Prove that the sum of angles of a triangle is  $180^\circ$ .

18. Show that the bisectors of angles of a parallelogram form a rectangle.

19. A conical tent has the area of its base as 154 sq m and its curved surface area is 550 sq m. Find the volume of the tent.

**OR**

A heap of wheat is in the form of a cone. The diameter of the base of the heap is 14 m and its height is 3 m. Find its volume. The heap is to be covered by a canvas to protect it from rain. Find the area of the canvas used.

20. A bag contains tickets numbered from 1 to 100. Find the probability that a ticket picked up at random (i) is a multiple of 7 (ii) is an odd number.

**SECTION D (4 marks)**

21. (i) Express  $0.2\overline{35}$  in the form of  $\frac{p}{q}$  where p and q are integers and  $q \neq 0$ . (ii) Find an irrational number between  $\frac{1}{7}$  and  $\frac{2}{7}$ .
22. If  $x + y + z = 0$ , then prove that  $x^3 + y^3 + z^3 = 3xyz$ .
23. Show that  $x - \sqrt{2}$  is a factor of the polynomial  $x^3 - 2\sqrt{2}x^2 - 10x + 12\sqrt{2}$ . Hence, factorise the polynomial.
24. Prove that the two triangles are congruent if any two angles and the included side of one triangle are equal to two angles and the included side of the other triangle. (ASA Congruence)
25. A group of 21 students of a school shared an ice cream brick during lunch break to celebrate the Independence Day. If each one takes a hemispherical scoop of the ice cream of 3 cm radius, find the volume of the ice cream eaten by them. (a) if the dimensions of the ice cream brick are 10 cm x 10 cm x 12 cm, how much volume of ice cream is left? (b) What value is depicted by the students?
26. Draw a histogram and frequency polygon for the following data:

Marks	10 – 20	20 – 30	30 – 40	40 – 50	50 – 60	60 – 70	70 – 80
No. of candidates	2	5	6	4	8	10	5

## SCIENCE

**General Instructions:**

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

Section A		
Q.No.	Question	Marks
1.	Which of the following cell organelles is responsible for protein synthesis?  A) Ribosomes B) Lysosomes C) Nucleus D) Vacuole	1

2.	<p>Blood is called a connective tissue because—</p> <p><b>A)</b> It connects body parts  <b>B)</b> It helps in transportation of materials  <b>C)</b> It has fluid matrix and connects different organs functionally  <b>D)</b> It has fibers</p>	1
3.	<p>Cork cells are impervious to gases due to the presence of—</p> <p><b>A)</b> Lignin  <b>B)</b> Suberin  <b>C)</b> Cutin  <b>D)</b> Pectin</p>	1
4.	<p>The main water-conducting elements of xylem are—</p> <p><b>A)</b> Sieve tubes and companion cells  <b>B)</b> Vessels and tracheids  <b>C)</b> Parenchyma and sclerenchyma  <b>D)</b> Collenchyma and xylem fibres</p>	1
5.	<p>Which of the following is a biotic factor affecting crop yield?</p> <p><b>A)</b> Rainfall  <b>B)</b> Temperature  <b>C)</b> Weeds  <b>D)</b> Soil pH</p>	1
6.	<p>Which among the following is an example of green manure?</p> <p><b>A)</b> Urea  <b>B)</b> Guar  <b>C)</b> Cow dung  <b>D)</b> Compost</p>	1
7.	<p>What is the main objective of animal husbandry?</p> <p><b>A)</b> Increasing human population  <b>B)</b> Increasing production of animal-based food  <b>C)</b> Plant breeding  <b>D)</b> Forest management</p>	1

8.	<p>The following question 8 consists of two statements -Assertion (A) and Reason (R). Answer this question by selecting the appropriate option given below :</p> <p><b>A.</b> Both A and Reason R are true, and R is the correct explanation of A.</p> <p><b>B.</b> Both A and R are true, but R is not the correct explanation of A.</p> <p><b>C.</b> A is true, but R is false.</p> <p><b>D.</b> A is false, but R is true.</p> <p>Assertion (A): Diffusion and osmosis are similar processes.</p> <p>Reason (R): Both involve movement of molecules from higher to lower concentration.</p>	1
9.	<p><b><u>Attempt either option A or B.</u></b></p> <p><b>A.</b> A plant cell and an animal cell were observed under a microscope. List two features to identify which one is a plant cell.</p> <p style="text-align: center;"><b>OR</b></p> <p><b>B.</b> A cell was observed under a microscope and found to have no defined nucleus or membrane-bound organelles.</p> <p><b>(i)</b> Name the type of cell.</p> <p><b>(ii)</b> Give one example of an organism with such cells.</p>	2
10.	<p>What happens when an animal cell and a plant cell are placed in:</p> <p><b>(a)</b> Hypotonic solution</p> <p><b>(b)</b> Hypertonic solution</p> <p><b>(c)</b> Isotonic solution</p>	3
11.	<p>Describe the structure of a neuron and state its function.</p>	3
12.	<p>Explain three ways to improve the quality of milk production in cattle.</p>	3

13.	<p>A banana plant can stand upright even though it has a soft stem. A tree like mango, on the other hand, has a strong woody stem that provides great mechanical support.</p> <p>Both, however, are able to transport water and nutrients efficiently. A. Which tissue provides mechanical support to banana stem?</p> <p><b>B.</b> Name the conducting tissue that carries water.</p> <p><b><u>Attempt either option C or D.</u></b></p> <p><b>C.</b> State any two functions of epidermis in plants.</p> <p style="text-align: center;"><b>OR</b></p> <p><b>D.</b> Name the four type of elements of Phloem tissue.</p>	4
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14.	<p><b><u>Attempt either option A or B.</u></b></p> <p><b>A.</b> State one function of the following cell organelles:</p> <p>(i) Nucleus  (ii) Mitochondria  (iii) Golgi apparatus  (iv) Lysosomes  (v) Endoplasmic reticulum</p> <p style="text-align: center;"><b>OR</b></p> <p><b>B.</b> List five major differences between prokaryotic and eukaryotic cell.</p>	5
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**Section B**

15.	<p>Which of the following is not a property of solids?</p> <p><b>A)</b> Definite shape  <b>B)</b> Incompressibility  <b>C)</b> Definite volume  <b>D)</b> High rate of diffusion</p>	1
16.	<p>What type of mixture is blood?</p> <p><b>A)</b> True solution  <b>B)</b> Suspension  <b>C)</b> Colloid  <b>D)</b> Compound</p>	1
17.	<p>The molecular mass of CO<sub>2</sub> is:</p> <p><b>A)</b> 22 u  <b>B)</b> 28 u  <b>C)</b> 44 u  <b>D)</b> 32 u</p>	1

18.	<p>The following question 18 consists of two statements -Assertion (A) and Reason (R). Answer this question by selecting the appropriate option given below :</p> <p>A. Both A and Reason 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> <p>Assertion (A): Electrons revolve around the nucleus in discrete orbits.  Reason (R): Electrons lose energy continuously while revolving around the nucleus.</p>	1
19.	<p>State two differences between Evaporation and Boiling.</p>	2
20.	<p>Write one difference between physical and chemical change with example.</p>	2

21.	What is the octet rule? Name one element that follows it.	2
22.	<p><b><u>Attempt either option A or B.</u></b></p> <p>A. What are Isotopes and Isobars? Write two applications of Isotopes.</p> <p style="text-align: center;"><b>OR</b></p> <p>B. An element 'X' has Mass number 27 and the number of neutrons is 14.</p> <p>(i) Find the Atomic number of X.</p> <p>(ii) Write the Electronic configuration of X.</p> <p>(iii) Identify the element X.</p>	3
23.	<p>Give reasons:</p> <p>(a) Tap water is not a pure substance.</p> <p>(b) Milk is a colloid.</p> <p>(c) Solution is stable in nature whereas Suspension is unstable.</p>	3
24.	<p>A water bottle wrapped in a wet cloth is kept under a moving fan. After some time, the water inside the bottle becomes cool. The process involved here is similar to that which helps in cooling earthen pots and desert coolers.</p> <p>A. Which phenomenon is responsible for cooling of water in earthen pots ?</p> <p>B. Why does a cooler not work effectively on humid days?</p> <p><b><u>Attempt either option C or D.</u></b></p> <p>C. List any two factors that increase the rate of evaporation.</p> <p style="text-align: center;"><b>OR</b></p> <p>D. State any two characteristics of particles of matter.</p>	4
25.	<p><b><u>Attempt either option A or B.</u></b></p> <p>A. State any five postulates of Dalton's atomic theory.</p> <p style="text-align: center;"><b>OR</b></p> <p>B. Define the following :</p> <p>(i) Atomic Mass unit</p> <p>(ii) Molecule</p> <p>(iii) Polyatomic ion</p> <p>(iv) Valency</p> <p>(v) Law of Constant Proportions</p>	5
<b>Section C</b>		
26.	<p>A car accelerates from 36 km/h to 72 km/h in 10 seconds. Its acceleration is —</p> <p>A) 1 m/s<sup>2</sup></p> <p>B) 2 m/s<sup>2</sup></p> <p>C) 5 m/s<sup>2</sup></p> <p>D) 10 m/s<sup>2</sup></p>	1

27.	In a velocity–time graph, the area enclosed between the graph and the time axis represents — <b>A) Acceleration</b> <b>B) Velocity</b> <b>C) Distance or displacement</b> <b>D) Rate of change of acceleration</b>	1
28.	If the momentum of a body is doubled while its mass remains constant, its velocity becomes — <b>A) Half</b> <b>B) Double</b> <b>C) Four times</b> <b>D) Remains same</b>	1

29.	When a ball falls freely from a height, the total mechanical energy <b>A) Increases</b> <b>B) Decreases</b> <b>C) Remains constant</b> <b>D) Becomes zero</b>	1
30.	When temperature increases, the speed of sound in air <b>A) Increases</b> <b>B) Decreases</b> <b>C) Remains constant</b> <b>D) Becomes zero</b>	1
31.	Which of the following waves requires a medium for propagation? <b>A) Light waves</b> <b>B) Radio waves</b> <b>C) Sound waves</b> <b>D) X-rays</b>	1

32.	<p>The following question 32 consists of two statements -Assertion (A) and Reason (R). Answer these questions by selecting the appropriate option given below :</p> <p><b>A.</b> Both A and Reason R are true, and R is the correct explanation of A.</p> <p><b>B.</b>Both A and R are true, but R is not the correct explanation of A.</p> <p><b>C.</b>A is true, but R is false. <b>D.</b> A is false, but R is true.</p> <p>Assertion (A): The weight of an object is less at the equator than at the poles.</p> <p>Reason (R): The value of acceleration due to gravity is less at the equator than at the poles.</p>	1
33.	<p>The following question 33 consists of two statements -Assertion (A) and Reason (R). Answer these questions by selecting the appropriate option given below :</p> <p><b>A.</b> Both A and Reason R are true, and R is the correct explanation of A.</p> <p><b>B.</b> Both A and R are true, but R is not the correct explanation of A.</p> <p><b>C.</b> A is true, but R is false.</p> <p><b>D.</b> A is false, but R is true.</p> <p>Assertion (A): Ultrasounds are high frequency waves.</p> <p>Reason (R): Ultrasonic waves can detect very small obstacles due to their short wavelength.</p>	1
34.	Define buoyant force. On what factors does it depend?	2
35.	<p><b><u>Attempt either option A or B.</u></b></p> <p><b>A.</b> A sound wave has a frequency of 256 Hz and wavelength of 1.3 m. Calculate its speed.</p> <p style="text-align: center;"><b>OR</b></p> <p><b>C.</b> List two uses of multiple reflection of sound.</p>	2
36.	What does the slope of a distance–time graph represent? How can we identify uniform and non-uniform motion from it?	3

37.	State Archimedes' Principle. Mention its two applications.	3
38.	<p>A cricket player catches a fast-moving ball by pulling his hands backward while catching it. If he tries to stop the ball suddenly without moving his hands back, he may hurt his palms. The force applied on the ball brings it to rest, and by increasing the time duration of stopping the ball, the impact force is reduced.</p> <p><b>A.</b> Define Momentum.</p> <p><b>B.</b> Name the law of motion which is demonstrated in this situation.</p> <p><b><u>Attempt either option C or D.</u></b></p> <p><b>C.</b> A ball of mass 0.5 kg is moving with a speed of 10 m/s. It is stopped by a player in 0.2 s. Find the average force applied by the player.</p> <p style="text-align: center;"><b>OR</b></p> <p><b>D.</b> A body of mass 3 kg moves with a velocity 4 m/s. Calculate its momentum.</p>	4
39.	<p><b><u>Attempt either option A or B.</u></b></p> <p><b>A.</b> (i) Define 1 Joule of work.  (ii) Write an expression for the kinetic energy of an object.  (iii) State the law of conservation of energy.  (iv) Define Power and write its SI unit.  (v) What are the necessary conditions for Work ?</p> <p style="text-align: center;"><b>OR</b></p> <p><b>B. (i)</b> A man lifts a bag of 20 kg from the ground and put it on his head 2 m above the ground. Calculate the work done by him on the bag.  (ii) On what factor does the kinetic energy of a body depends?  (iii) Find the energy possessed by an object of mass 20 kg when it is at a height of 15 m above the ground. Given <math>g = 9.8 \text{ m/s}^2</math></p>	5

## SOCIAL SCIENCE

1. What were the occupations of the Dhangars of Maharashtra?

**OR**

Who were "Pykars"?

**OR**

Name two pastoralist communities of Madras Presidency.

2. Who crowned himself as emperor of France?

3. In which state is the 'Nanda Devi bioserve located?
4. What is apartheid?
5. Who appoints the Chief Election Commissioner in India?
6. Name two rights specifically included in the International Covenant on Economic, Social and Cultural Rights.
7. What do you mean by minimum support price?
8. Enumerate the three demands put forward by Lenin in his April Theses.
9. Mention three problems faced by the Weimar Republic.
10. Explain why the difference between the durations of day and night are not felt at Kanyakumari, but is felt at Kashmir.
11. Write the formation, composition and one importance of Peninsular plateau.
12. Mention any three limitations of the Prime Minister in a coalition government.
13. Mention two differences and one similarity between Pinochet's rule in Chile and Communist rule in Poland.
14. Explain the main cause of conflict in Kosovo.
15. Explain any three powers of the Supreme Court of India.
16. What is the International Poverty Line as described by the World Bank? List any two reasons why the poverty alleviation programmes were not successful in most parts of India.
17. Define production. Give any two different ways of increasing production on the same piece of land.
18. How does the Public Distribution System ensure food security in India?
19. Name four communities that live in Bastar. What are some of the beliefs of the communities of Bastar regarding nature?

**OR**

20. Describe the lifestyle of Gujjar Bakarwals and Gaddi shepherds.

**OR**

Mention four reasons why the Indian cultivators were unwilling to grow opium. How were the British influence them to produce opium?

21. Discuss the main causes of French Revolution.

**OR**

How did the Revolution affect the everyday life of the French people? Discuss.

22. State three benefits of rivers. Mention any two causes of river pollution.

**OR**

Enlist the characteristic features of the Godavari basin.

23. Give an account of the climatic conditions of the cold weather season in India.

24. Why do people consider democracy as the best form of government?

**OR**

Describe the arguments against democracy.

24. Describe five main features of Sarva Shiksha Abhiyan.

**OR**

Explain any five effects of unemployment on the overall growth of the economy.

25. Mention the main features of National Rural Employment Guarantee Act 2005.

**Case study**

- Current status of ration shops.
- Why NREGA is changed to G RAM G scheme? How it is different from NREGA.

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