



# **N. K. BAGRODIA** **SECTOR-17, PHASE-II,** **GLOBAL SCHOOL DWARKA, NEW DELHI-78**

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**SESSION: 2026-27**

**TERM 1**

**SAMPLE PAPER**

**SUBJECT: ENGLISH**

**CLASS: VIII**

**MAX. MARKS: 60**

**DURATION: 2 Hour 30 Mins**

## **GENERAL INSTRUCTIONS**

1. Read all the questions carefully.
2. This question paper consists of 14 questions in total. All questions are compulsory.
3. Question Paper comprises of 4 sections – A, B, C, D.
4. **Section A:** READING (15 MARKS)
5. **Section B:** WRITING (12 MARKS)
6. **Section C:** GRAMMAR (12 MARKS)
7. **Section D:** LITERATURE (21 MARKS)
8. Internal instructions and options are provided in some questions.

## **SECTION A: READING (15 MARKS)**

| Q1 | Read the passage and answer the questions that follow.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 8M |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
|    | <p>1. Mirrors have been used since ages. It is said that Archimedes used huge mirrors to focus the heat of the sun's rays on enemy ships to burn them. The same principle is used in solar cookers, where mirrors are used to reflect and focus the sun's rays on to cooking containers. Astronomers use huge concave mirrors to focus starlight. The mirrors used in telescopes are polished by giving a thin coat of silver or aluminum to the glass. With the telescopes, astronomers can see the heavenly bodies, but even without the telescopes one can see the moon. A full moon shining overhead is a beautiful sight. But it is also a puzzle, because if the sun and the moon both give the same light, then why is the moonlight more pleasant?</p> <p>2. The reason is that the moon reflects very little sunlight, in fact, only seven percent of the light it receives. The earth reflects about half of the radiation that it receives from the sun. Imagine how bright the earth must be looking from the moon! One can even read a book on the moon in the earthlight. However, you do not have to travel all the way to the moon to realize how strong the earth light is. Observe the crescent moon soon after all the new moon. The bright crescent is illuminated by the sun. The rest of the moon is illuminated by earthlight. In other words, the light reflected by the earth is falling on the moon. This is being reflected back to us and is strong enough to show the moon faintly. As the crescent increases in size, this effect disappears.</p> <p>3. Fresh snow is the best reflector of sunlight in nature. As a highly reflective substance, snow dramatically increases UV-B exposure near the Earth's surface, as it reflects most of the radiation back into the atmosphere, where it is then scattered back toward the surface by aerosols and molecules. Fresh snow can reflect as much as 9.4 percent of the</p> |    |

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|           | <p>incoming UV radiation. The bright light reflected by it can dazzle and harm your eyes. Mountaineers, therefore, use dark glasses.</p> <p><b>1. Why does the faint part of the crescent moon become less visible as the moon grows fuller? (1M)</b></p> <p>a) Because the moon stops reflecting earthlight<br/> b) Because the earth reflects less sunlight<br/> c) Because the increasing sunlight on the moon overpowers the faint earthlight<br/> d) Because the moon moves farther away from the earth</p> <p>2. The earth reflects _____ of the radiation received from the sun. (1M)</p> <p><b>3. Assertion (A): Concave mirrors are used in telescopes.</b><br/> Reason (R): Concave mirrors can focus light from distant objects. (1M)</p> <p>(i) Both Assertion (A) and Reason (R) are true, and R is the correct explanation of A.<br/> (ii) Both A and R are true, but R is not the correct explanation of A.<br/> (iii) A is true, but R is false.<br/> (iv) A is false, but R is true.</p> <p><b>4. What is earthlight and how does it help us see the moon? (1M)</b></p> <p><b>5. How are telescope mirrors made effective? (1M)</b></p> <p>a) By painting them<br/> b) By adding water<br/> c) By coating them with silver or aluminum<br/> d) By heating them</p> <p><b>6. Why is fresh snow considered a strong reflector of sunlight, and what precautions should be taken because of it? (2M)</b></p> <p><b>7. Find and copy one word from Paragraph 3 which means “people who climb mountains.” (1M)</b></p>                                                                                                                                                                                                                                                                               |           |
| <b>Q2</b> | <p><b>Read the passage and answer the questions that follow.</b></p> <p>1. In recent years, the excessive use of mobile phones among students has become a growing concern. While smartphones have made access to information easier and learning more interactive, their overuse is beginning to show negative effects. Many students spend long hours on social media, gaming, and entertainment rather than focusing on studies or physical activities.</p> <p>2. Studies suggest that prolonged screen time can lead to reduced concentration, poor academic performance, and even health issues such as eye strain and sleep disturbances. The habit of constantly checking notifications also affects attention span, making it difficult for students to stay focused on one task for a long time. As a result, productivity decreases and learning becomes less effective.</p> <p>3. On the other hand, mobile phones are not entirely harmful. When used wisely, they can be powerful educational tools. Students can attend online classes, watch informative videos, and access a wide range of study materials. Many educational apps are designed to make learning engaging and interactive.</p> <p>4. The key issue, therefore, is not the device itself but how it is used. Parents and teachers play an important role in guiding students towards balanced usage. Setting time limits, encouraging offline activities, and promoting disciplined habits can help students use technology in a more productive way.</p> <p>5. In conclusion, mobile phones can either be a useful learning aid or a major distraction. The choice depends on the user. Developing self-control and awareness is essential for students to benefit from technology without falling into its negative effects.</p> | <b>7M</b> |

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|  | <p><b>1. What is the main concern discussed in the passage? (1M)</b></p> <p>a) Lack of schools<br/>b) Overuse of mobile phones<br/>c) Poor teaching methods<br/>d) Lack of technology</p> <p><b>2. Assertion (A):</b> Mobile phones are harmful for students.<br/><b>Reason (R):</b> They can be used for educational purposes. (1M)</p> <p>a) Both A and R are true and R is the correct explanation of A<br/>b) Both A and R are true but R is not the correct explanation of A<br/>c) A is true but R is false<br/>d) A is false but R is true</p> <p><b>3. Suggest two ways students can use mobile phones more effectively for learning. (2M)</b></p> <p><b>4. Find one word from Paragraph 2 which means "ability to focus." (1M)</b></p> <p><b>5. Why do students lose focus easily? (1M)</b></p> <p>a) Due to lack of teachers<br/>b) Because of constant notifications<br/>c) Due to less homework<br/>d) Because of fewer subjects</p> <p><b>6. What is one negative effect of excessive screen time? (1M)</b></p> <p>a) Improved memory<br/>b) Better eyesight<br/>c) Reduced concentration<br/>d) Increased energy</p> |  |
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| SECTION B: WRITING (12 MARKS) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |
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| <b>Q3</b>                     | <p>With the massive surge in artificial intelligence, the spread of realistic deepfakes and online misinformation has become a serious threat to society, misleading millions of people daily. As the Cyber Security Cell Representative of your district, design an impactful awareness poster in about 50 words titled "Think Before You Share: Spot the Fake".</p> <p style="text-align: center;"><b>OR</b></p> <p>The rise in online classes and teenage social media usage has led to a steep increase in cyberbullying, identity theft, and online harassment among school children. As the Head Boy/Head Girl of your school, design a poster for the school corridor titled "<b>Be a Buddy, Not a Cyber Bully</b>". The poster should encourage digital kindness and provide steps to report online abuse.</p> | <b>3M</b> |
| <b>Q4</b>                     | <p>Your family recently purchased an eco-friendly, solar-powered electric bicycle for short daily commutes. Write a factual description of this modern vehicle.</p> <p style="text-align: center;"><b>OR</b></p> <p>For your school's terrace herbal garden, the eco-club bought a DIY smart drip-irrigation kit equipped with moisture sensors. Write a factual description of this system, describing its core components</p>                                                                                                                                                                                                                                                                                                                                                                                        | <b>4M</b> |
| <b>Q5</b>                     | <p>In collaboration with the local Women's Police Cell, your school conducted a week-long "Self-Defense and Personal Safety Workshop" for female students. As the Head Girl of the school, write a report for the school newsletter. Highlight the martial arts techniques taught, emergency helpline awareness, situational mock drills, and the distribution of participation certificates.</p> <p style="text-align: center;"><b>OR</b></p> <p>Last week, your school hosted its Annual Inter-House Cultural Fest, featuring competitions in classical dance, street play (Nukkad Natak), fusion music, and digital art.</p>                                                                                                                                                                                        | <b>5M</b> |

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|  | As the Cultural Secretary of your school, write a report for a local newspaper detailing the participating houses, the panel of external judges, standout performances, and the declaration of the overall winning house. |  |
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### SECTION C: GRAMMAR (12 MARKS)

| Q6                                     | <p><b>Fill in the blanks by choosing the correct verb given in brackets.</b></p> <p>They (a) _____ hard for the competition, but they (b) _____ the results yet. Everyone (c) _____ eager to (d) _____ their performance.</p> <p>(a) (i) worked (iii) have worked<br/>(ii) works (iv) working<br/>(b) (i) has not announced (iii) have not announced<br/>(ii) will announce (iv) announced<br/>(c) (i) is (iii) were<br/>(ii) are (iv) be<br/>(d) (i) see (iii) saw<br/>(ii) seeing (iv) seen</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | $\frac{1}{2} \times 4 = 2M$ |         |           |         |                                     |     |  |  |                                       |     |  |  |                                       |     |  |  |                                        |     |  |  |                                       |     |  |  |                                   |     |  |  |                             |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------|-----------|---------|-------------------------------------|-----|--|--|---------------------------------------|-----|--|--|---------------------------------------|-----|--|--|----------------------------------------|-----|--|--|---------------------------------------|-----|--|--|-----------------------------------|-----|--|--|-----------------------------|
| Q7                                     | <p><b>The following passage has not been edited. There is an error in each of the lines against which a blank is given. Write the incorrect word and the correction in the space provided.</b></p> <table><tr><th></th><th></th><th>Incorrect</th><th>Correct</th></tr><tr><td>Last Monday I received the telegram</td><td>(a)</td><td></td><td></td></tr><tr><td>from my brother which lives in Delhi.</td><td>(b)</td><td></td><td></td></tr><tr><td>He wants me to come home immediately.</td><td>(c)</td><td></td><td></td></tr><tr><td>I at once packed mine luggage and left</td><td>(d)</td><td></td><td></td></tr><tr><td>to the railway station in a rickshaw.</td><td>(e)</td><td></td><td></td></tr><tr><td>Suddenly there was a louder bang.</td><td>(f)</td><td></td><td></td></tr></table>                                                                                                                                                                             |                             |         | Incorrect | Correct | Last Monday I received the telegram | (a) |  |  | from my brother which lives in Delhi. | (b) |  |  | He wants me to come home immediately. | (c) |  |  | I at once packed mine luggage and left | (d) |  |  | to the railway station in a rickshaw. | (e) |  |  | Suddenly there was a louder bang. | (f) |  |  | $\frac{1}{2} \times 6 = 3M$ |
|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Incorrect                   | Correct |           |         |                                     |     |  |  |                                       |     |  |  |                                       |     |  |  |                                        |     |  |  |                                       |     |  |  |                                   |     |  |  |                             |
| Last Monday I received the telegram    | (a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                             |         |           |         |                                     |     |  |  |                                       |     |  |  |                                       |     |  |  |                                        |     |  |  |                                       |     |  |  |                                   |     |  |  |                             |
| from my brother which lives in Delhi.  | (b)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                             |         |           |         |                                     |     |  |  |                                       |     |  |  |                                       |     |  |  |                                        |     |  |  |                                       |     |  |  |                                   |     |  |  |                             |
| He wants me to come home immediately.  | (c)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                             |         |           |         |                                     |     |  |  |                                       |     |  |  |                                       |     |  |  |                                        |     |  |  |                                       |     |  |  |                                   |     |  |  |                             |
| I at once packed mine luggage and left | (d)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                             |         |           |         |                                     |     |  |  |                                       |     |  |  |                                       |     |  |  |                                        |     |  |  |                                       |     |  |  |                                   |     |  |  |                             |
| to the railway station in a rickshaw.  | (e)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                             |         |           |         |                                     |     |  |  |                                       |     |  |  |                                       |     |  |  |                                        |     |  |  |                                       |     |  |  |                                   |     |  |  |                             |
| Suddenly there was a louder bang.      | (f)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                             |         |           |         |                                     |     |  |  |                                       |     |  |  |                                       |     |  |  |                                        |     |  |  |                                       |     |  |  |                                   |     |  |  |                             |
| Q8                                     | <p><b>Read the passage given below carefully. Fill in the blanks with the most appropriate modal auxiliary from the options provided in the bracket right after each blank.</b></p> <p>Yesterday, our school group went on an adventure trek to the foothills of the Himalayas. Before leaving, our instructor warned us that we (1) _____ (<b>must / can / might</b>) follow the safety guidelines strictly, as the mountain trails are dangerous. He explicitly stated that we (2) _____ (<b>should not / must not / need not</b>) wander away from the main group under any circumstances.</p> <p>As we climbed higher, the weather turned unpredictable. The guide looked at the heavy fog and said, "It (3) _____ (<b>will / would / might</b>) become difficult to see the path ahead if the mist thickens, so stay alert." Suddenly, Rohan slipped on a wet rock. Fortunately, he (4) _____ (<b>could / should / may</b>) balance himself quickly and avoided a bad fall.</p> | $\frac{1}{2} \times 4 = 2M$ |         |           |         |                                     |     |  |  |                                       |     |  |  |                                       |     |  |  |                                        |     |  |  |                                       |     |  |  |                                   |     |  |  |                             |
| Q9                                     | <p><b>Given below are the steps to make a delicious snack. Study the information carefully and then use it to complete a description of the process of making the recipe.</b></p> <ol style="list-style-type: none"><li>Heat some cooking oil in a pan.</li><li>Add mustard seeds, curry leaves and whole red chillies.</li><li>Add cooked green peas and roasted peanuts to the mixture and cook until golden brown.</li><li>Throw in some turmeric powder and salt according to your taste.</li></ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | $\frac{1}{2} \times 4 = 2M$ |         |           |         |                                     |     |  |  |                                       |     |  |  |                                       |     |  |  |                                        |     |  |  |                                       |     |  |  |                                   |     |  |  |                             |

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|            | Bread poha is a variation of the Maharashtrian snack poha and is very easy to prepare. First of all, some cooking oil (a) _____. Next, mustard seeds, curry leaves and whole red chillies (b) _____. Now cooked green peas and roasted peanuts (c) _____ until it turns golden brown. Then, some turmeric powder and salt (d) _____ according to taste.                                                                                                                                                                                                                                                                                                                                                                                                     |                    |
| <b>Q10</b> | <b>Do as directed.</b><br>1 Each of the boys _____ responsible for his work. <i>(Fill in the correct form of the verb 'be'.)</i><br>2. She will not come _____ she is invited. <i>(Fill in with a subordinating conjunction.)</i><br>3. _____ students were absent but _____ of them informed the teacher. <i>(Fill in with determiners.)</i><br>4. He was tired. He continued working. <i>(Join using a conjunction.)</i><br>5. <i>The team of players, along with their experienced head coach, are practicing diligently on the main field for the upcoming state championship match. (Write the error and correction in this line)</i><br>6. <i>The quality of these mangoes _____ not up to the mark. (Fill in the correct form of the verb 'be'.)</i> | <b>½*6<br/>=3M</b> |

#### SECTION D: LITERATURE (21 MARKS)

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |
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| <b>Q11</b> | <b>Read the extracts and answer the questions that follow.</b><br>1. <i>"Beyond this place of wrath and tears<br/>Looms but the Horror of the shade,<br/>And yet the menace of the years<br/>Finds and shall find me unafraid."</i><br>a. What does "the Horror of the shade" refer to?<br>b. Identify the poetic device in "the menace of the years".<br><br>2. <i>Her admonition mild<br/>In forest and the hill<br/>By traveller be heard,<br/>Restraining rampant squirrel<br/>Or too impetuous bird.</i><br>a. How does nature deal with the feeble or the wayward?<br>b. What does this stanza reveal about Nature?<br><br><div style="text-align: center;"><b>OR</b></div> 1. <i>Her Voice among the Aisles<br/>Incite the timid prayer<br/>Of the minutest Cricket —<br/>The most unworthy Flower —"</i><br>a. Which tiny, often overlooked elements of the environment are mentioned in these lines?<br>b. What effect does Nature's voice have on these small, timid creatures?<br><br>2. <i>"Out of the night that covers me,<br/>Black as the pit from pole to pole,"</i><br>a. What does the word "night" symbolize here?<br>b. Why is the night compared to a pit?<br>c. Which literary device has been used in the first line? | <b>2*2<br/>=4M</b> |
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| <p><b>Q12</b></p> | <p><b>Read the extract and answer the questions that follow.</b><br/> <i>1. "Your office room is very dusty and there may be scorpions behind your law books."</i><br/> a) Why did the speaker make this remark?<br/> b) What does this statement reveal about the speaker's character?</p> <p style="text-align: center;">OR</p> <p><i>2. 'She could be who she was meant to be.'</i><br/> a) Who is being referred to here?<br/> b) How was he/she able to realise his/her potential?</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <p><b>1*2<br/>=2M</b></p>       |
| <p><b>Q13</b></p> | <p><b>Answer the questions that follow in 40-50 words. (Any 5)</b></p> <ol style="list-style-type: none"> <li>1. When a people are enslaved, as long as they hold fast to their language it is as if they had the key to their prison. Do you agree? Give reasons and examples from the story 'The Last Class'.</li> <li>2. How does the speaker show that the Nature takes care of all, including those that are not even notice by anyone? Answer with reference to 'Nature- the Gentlest Mother Is'.</li> <li>3. Why did the movement run into trouble? Was it resolved? Answer with reference to 'One Man One Movement'.</li> <li>4. Why did the gancheros rush as soon as the garbage trucks tipped their load in the landfill?</li> <li>5. How did Swaminathan try to make his father change his mind?</li> <li>6. How did the teacher dismiss the last class?</li> <li>7. In what ways has Afroz inspired the next generation?</li> <li>8. What do you think about Ranbir? What kind of life did he lead?</li> </ol> | <p><b>2*5<br/>=10<br/>M</b></p> |
| <p><b>Q14</b></p> | <p><b>Answer the question that follow in 100 words. (Any 1)</b><br/> 'But nature is a mother to all of us.' Do we treat nature as a mother who nurtures us or do we consider nature as something to be conquered? Express your opinion</p> <p style="text-align: center;">OR</p> <p>Based on your reading of 'Why Madge Changed Her Mind', analyse how Grandma's childhood home serves as a lesson for Madge. How does this experience help Madge overcome peer pressure and realize the difference between material wealth and human values?</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <p><b>5M</b></p>                |



**N. K. BAGRODIA** **SECTOR-17, PHASE-II,**  
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सत्र : 2026-27

अर्धवार्षिक वार्षिक कार्य पत्रिका

विषय : हिन्दी

कक्षा : 8

अधिकतम अंक: 60

समय अवधि : 2.5 घंटा

**सामान्य निर्देश:**

- \* प्रश्न पत्र चार खंडों (क, ख, ग और घ) में विभाजित है।
- \* खंड 'क' अपठित गद्यांश (6+6=12 अंक)
- \* खंड 'ख' व्याकरण (16 अंक)
- \* खंड 'ग' साहित्य (18 अंक)
- \* खंड 'घ' लेखन (14 अंक)
- \* सभी प्रश्नों के उत्तर ध्यानपूर्वक पढ़कर देना अनिवार्य है।

**'खंड-क' (अपठित बोध) (6+6=12 अंक)**

|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |   |
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| प्रश्न 1 | <p>निम्नलिखित अपठित गद्यांश को ध्यानपूर्वक पढ़कर संबंधित प्रश्नों के उत्तर सही विकल्प चुनकर दें:-</p> <p>आज के समय में शहरों में रहने वाले बच्चों का प्रकृति से संपर्क पहले की तुलना में कम होता जा रहा है। ऊँची इमारतों, व्यस्त दिनचर्या और मोबाइल तथा कंप्यूटर के बढ़ते उपयोग के कारण बच्चों का अधिक समय घर के भीतर बीतता है। ऐसे में विद्यालयों की भूमिका महत्वपूर्ण हो जाती है। यदि विद्यालय बच्चों को केवल पुस्तकों तक सीमित न रखकर उन्हें प्रकृति के बीच सीखने के अवसर दें, तो उनके सीखने का अनुभव अधिक रोचक बन सकता है।</p> <p>कुछ विद्यालयों ने इस दिशा में अनोखी पहल की है। वे अपने परिसर में छोटे-छोटे 'स्कूल गार्डन' तैयार कर रहे हैं। बच्चे इनमें पौधे लगाते हैं, उनकी देखभाल करते हैं और उनके विकास को अपनी कॉपियों में दर्ज करते हैं। इस गतिविधि से उन्हें केवल पेड़-पौधों की जानकारी ही नहीं मिलती, बल्कि धैर्य, जिम्मेदारी और सहयोग जैसे गुण भी विकसित होते हैं। जब कोई बच्चा अपने लगाए हुए पौधे में नई पत्ती निकलते देखता है, तो उसे यह अनुभव पुस्तक में पढ़ी गई किसी जानकारी से कहीं अधिक याद रहता है।</p> <p>प्रकृति के साथ जुड़ाव बच्चों को पर्यावरण के प्रति संवेदनशील भी बनाता है। वे पानी की बचत, कूड़ा अलग करने और पेड़ों की रक्षा जैसे छोटे-छोटे कार्यों का महत्व समझने लगते हैं। इस प्रकार विद्यालय का एक छोटा-सा बगीचा बच्चों के लिए केवल पौधे उगाने की जगह नहीं, बल्कि जीवन से सीखने की खुली प्रयोगशाला बन सकता है।</p> |   |
| क)       | <p>विद्यालयों में 'स्कूल गार्डन' बनाने का मुख्य उद्देश्य क्या है?</p> <p>(अ) बच्चों को खेल का नया स्थान देना (ब) बच्चों को प्रकृति से जोड़कर सीखने का अवसर देना</p> <p>(स) विद्यालय को सुंदर बनाना (द) बच्चों को अधिक गृहकार्य देना</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1 |
| ख)       | <p>पौधों की देखभाल करने से बच्चों में कौन-सा गुण विकसित होता है?</p> <p>(अ) आलस्य (ब) असावधानी</p> <p>(स) जिम्मेदारी (द) प्रतियोगिता</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1 |
| ग)       | <p>कथन-कारण प्रश्न</p> <p>कथन (A): विद्यालय में बनाया गया छोटा-सा बगीचा बच्चों के लिए केवल पौधे उगाने का स्थान नहीं, बल्कि जीवन से सीखने की एक खुली प्रयोगशाला बन जाता है।</p> <p>कारण (R): क्योंकि बच्चे केवल पुस्तकों को पढ़कर ही धैर्य, जिम्मेदारी, सहयोग तथा पर्यावरण संरक्षण जैसे मूल्यों को पूरी तरह सीख सकते हैं।</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1 |

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|           | (अ) कथन (A) और कारण (R) दोनों सत्य हैं तथा कारण (R), कथन (A) की सही व्याख्या करता है।<br>(ब) कथन (A) और कारण (R) दोनों सत्य हैं, परंतु कारण (R), कथन (A) की सही व्याख्या नहीं करता।<br>(स) कथन (A) सत्य है, परंतु कारण (R) असत्य है।<br>(द) कथन (A) असत्य है, परंतु कारण (R) सत्य है।                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |
| घ)        | <b>गद्यांश के अनुसार बच्चे पौधे में नई पत्ती निकलते देखकर क्या अनुभव करते हैं? *</b><br>(अ) उन्हें प्रकृति से जुड़ा अनुभव मिलता है।<br>(ब) उन्हें पढ़ाई कठिन लगती है।<br>(स) वे खेलना बंद कर देते हैं।<br>(द) वे विद्यालय जाना छोड़ देते हैं।                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1 |
| ड)        | <b>विद्यालय में 'स्कूल गार्डन' बच्चों के सीखने को किस प्रकार प्रभावी बनाता है?</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1 |
| च)        | <b>प्रकृति से जुड़ाव बच्चों के व्यवहार में कौन-कौन से परिवर्तन ला सकता है?</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1 |
| प्रश्न 2. | <p>किसी शहर की पहचान केवल उसकी बड़ी-बड़ी इमारतों, चौड़ी सड़कों या चमकते बाजारों से नहीं होती। उसकी असली पहचान वहाँ रहने वाले लोगों के व्यवहार और आपसी सहयोग से बनती है। आज कई शहरों में लोग अपने आसपास की समस्याओं को केवल प्रशासन की जिम्मेदारी मान लेते हैं। सड़क पर पड़ा कूड़ा हो, सार्वजनिक स्थानों पर पानी की बर्बादी हो या किसी पार्क की खराब स्थिति—अक्सर लोग शिकायत तो करते हैं, लेकिन स्वयं पहल करने से बचते हैं।</p> <p>इसी सोच को बदलने के लिए कुछ स्थानों पर 'मोहल्ला पुस्तकालय' और सामुदायिक गतिविधियों की शुरुआत की गई है। किसी घर का खाली कमरा, सामुदायिक भवन का एक कोना या दुकान की बंद पड़ी जगह को छोटी-सी पुस्तकालय में बदल दिया जाता है। लोग अपने घरों की पुरानी, उपयोगी पुस्तकें वहाँ जमा करते हैं। बच्चे कहानी की किताबें पढ़ते हैं, बड़े समाचार-पत्र पढ़ते हैं और कभी-कभी स्थानीय लोग मिलकर चर्चा भी करते हैं। इससे न केवल पढ़ने की आदत बढ़ती है, बल्कि अलग-अलग आयु के लोगों के बीच संवाद भी बढ़ता है। ऐसी पहल का सबसे बड़ा लाभ यह है कि लोग अपने मोहल्ले को केवल रहने की जगह न समझकर अपनी साझा जिम्मेदारी मानने लगते हैं। जब कोई व्यक्ति अपने आसपास के सुधार में स्वयं योगदान देता है, तो दूसरे लोग भी प्रेरित होते हैं। किसी बड़े परिवर्तन की शुरुआत हमेशा बड़े साधनों से हो, यह आवश्यक नहीं। कई बार एक छोटी-सी पहल ही पूरे समुदाय में बदलाव की शुरुआत कर देती है।</p> |   |
| क)        | <b>किसी शहर की वास्तविक पहचान किससे बनती है?</b><br>(अ) बड़ी-बड़ी इमारतों से<br>(ब) चमकते बाजारों से<br>(स) लोगों के व्यवहार और आपसी सहयोग से<br>(द) चौड़ी सड़कों से                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1 |
| ख)        | <b>'मोहल्ला पुस्तकालय' बनाने के लिए किसका उपयोग किया जा सकता है?</b><br>(अ) केवल बड़े विद्यालयों का<br>(ब) खाली कमरे या सामुदायिक स्थान का<br>(स) केवल सरकारी भवनों का<br>(द) केवल बड़े बाजारों का                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1 |
| ग)        | <b>कथन (A):</b> मोहल्ला पुस्तकालय जैसी सामुदायिक पहल लोगों में अपने क्षेत्र के प्रति उत्तरदायित्व की भावना विकसित करती है।<br><b>कारण (R):</b> क्योंकि ऐसी गतिविधियों में लोग स्वयं भाग लेते हैं, जिससे सहयोग, संवाद और सामूहिक जिम्मेदारी की भावना बढ़ती है।<br><b>विकल्प :</b><br><b>(अ)</b> कथन और कारण दोनों सत्य हैं तथा कारण, कथन की सही व्याख्या करता है।<br><b>(ब)</b> कथन और कारण दोनों सत्य हैं, परंतु कारण, कथन की सही व्याख्या नहीं करता।<br><b>(स)</b> कथन सत्य है, परंतु कारण असत्य है।<br><b>(द)</b> कथन असत्य है, परंतु कारण सत्य है।                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1 |
| घ)        | <b>मोहल्ला पुस्तकालय से लोगों को क्या लाभ होता है?</b><br>(अ) केवल मनोरंजन मिलता है।<br>(ब) पढ़ने की आदत और आपसी संवाद बढ़ता है।<br>(स) लोगों का काम कम हो जाता है।<br>(द) बच्चों को खेल का स्थान मिलता है।                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1 |

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| ड)                      | लोग अपने आसपास की समस्याओं के प्रति किस प्रकार की सोच रखते हैं?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1       |
| च)                      | 'साझी जिम्मेदारी' की भावना किसी मोहल्ले को किस प्रकार बेहतर बना सकती है?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1       |
| <b>'खंड-ख' (16 अंक)</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |
| प्रश्न 3                | निम्नलिखित शब्द विचार पर आधारित प्रश्नों में से <u>किन्हीं तीन</u> के उत्तर दीजिए।<br>(क) गोस्वामी तुलसीदास द्वारा रचित कृति एवं उसकी भाषा का नाम लिखिए।<br>(ख) उर्दू किस लिपि में लिखी जाती है।<br>(ग) संविधान के किस अनुच्छेद के अनुसार संघ की राजभाषा हिंदी तथा लिपि देवनागरी है?<br>(घ) भाषा का लिखित रूप क्या होता है? (अस्थायी/स्थायी/गतिशील)                                                                                                                                                                                                                                                                                                                                      | (1X3=3) |
| प्रश्न 4                | निम्नलिखित <u>सर्वनाम-आधारित</u> प्रश्नों में से <u>किन्हीं तीन</u> के उत्तर दीजिए।<br>(क) 'जिस विद्यार्थी ने कठिन परिस्थिति में भी धैर्य नहीं खोया, उसी को विद्यालय ने सम्मानित किया।' (वाक्य में प्रयुक्त सर्वनाम शब्द पहचानकर उसका भेद भी लिखिए)<br>(ख) 'तुम अपनी वस्तुएँ स्वयं सँभालो और किसी पर निर्भर मत रहो।' वाक्य में प्रयुक्त सर्वनामों को पहचानकर उनके भेद लिखिए।<br>(ग) 'किसने तुम्हें बताया कि वे आज हमारे साथ नहीं आएँगे?' वाक्य में प्रयुक्त *दो भिन्न प्रकार के सर्वनाम* पहचानकर उनके भेद लिखिए।<br>(घ) निम्नलिखित वाक्य में संज्ञा की पुनरावृत्ति दूर करके उचित सर्वनामों का प्रयोग कीजिए—<br>'सिया ने सिया की परियोजना अध्यापिका को दिखाई और सिया अपनी सीट पर बैठ गई।' | (1X3=3) |
| प्रश्न 5                | निम्नलिखित <u>संज्ञा-आधारित</u> प्रश्नों में से <u>किन्हीं तीन</u> के उत्तर दीजिए।<br>(क) 'दूसरों की सहायता करने से मनुष्य के भीतर मानवता का विकास होता है।' वाक्य में प्रयुक्त भाववाचक संज्ञा को पहचानकर लिखिए तथा ये बताइए की ऐसा कौन-सा शब्दांश उसमें लगा जिससे उसमें भाव उत्पन्न हो गया।<br>(ख) 'हिमालय की ऊँची चोटियाँ सदैव पर्यटकों को आकर्षित करती हैं।' वाक्य में प्रयुक्त संज्ञा को पहचानकर उसका भेद भी लिखिए।<br>(ग) 'किसान ने खेत में गेहूँ, चावल और सरसों का भंडारण किया।' वाक्य में प्रयुक्त द्रव्यवाचक संज्ञाओं को पहचानकर लिखिए।<br>(घ) निम्नलिखित वाक्य में रेखांकित संज्ञा का भेद लिखिए—<br>'बचपन की स्मृतियाँ जीवनभर मन में बनी रहती हैं।'                             | (1X3=3) |
| प्रश्न 6                | निम्नलिखित शब्द-विचार के आधार पर प्रश्नों में से <u>किन्हीं तीन</u> के उत्तर दीजिए।<br>(क) 'पाठशाला' शब्द को उसके सार्थक खंडों में विभाजित करके रचना के आधार पर उसका भेद बताइए।<br>(ख) 'दशानन' शब्द का प्रयोग रावण के लिए किया जाता है। रचना के आधार पर इसके शब्द-भेद को पहचानकर कारण लिखिए।<br>(ग) 'छोटा बालक तेजी से दौड़ रहा है।' वाक्य में प्रयुक्त किसी एक विकारी शब्द को पहचानकर लिखिए और उसका परिवर्तित रूप बताइए।<br>(घ) 'बच्चें दौड़ते हैं तथा दूसरा बच्चा पढ़ रहा है।' इन दोनों वाक्यों में ऐसे *दो शब्द* पहचानकर लिखिए जिनके रूप में परिवर्तन हुआ है।                                                                                                                         | (1X3=3) |
| प्रश्न 7                | निम्नलिखित <u>उपसर्ग-प्रत्यय</u> पर आधारित पाँच प्रश्नों में से <u>किन्हीं चार</u> प्रश्नों के उत्तर दीजिए।<br>(क) 'असावधानी' शब्द को उपसर्ग, मूल शब्द और प्रत्यय के आधार पर अलग-अलग कीजिए।<br>(ख) 'सफलता' शब्द में मूल शब्द और प्रत्यय अलग कीजिए तथा बने हुए शब्द का अर्थ लिखिए।<br>(ग) 'दुर्व्यवहार' शब्द में प्रयुक्त उपसर्ग को पहचानकर मूल शब्द से अलग कीजिए।<br>(ङ) 'निराशाजनक' शब्द में प्रयुक्त उपसर्ग तथा प्रत्यय पहचानकर लिखिए।<br>(घ) 'अपनापन' शब्द में मूल शब्द और प्रत्यय अलग-अलग कीजिए।                                                                                                                                                                                     | (1X4=4) |
| <b>'खंड-ग' (18 अंक)</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |
| प्रश्न 8                | निम्नलिखित काव्यांश के आधार पर पूछे गए बहुविकल्पी प्रश्नों के सही उत्तर का चुनाव करके लिखें -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | (5)     |

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|           | <p>जो भरा नहीं है भावों से,<br/>बहती जिसमें रस-धार नहीं।<br/>वह हृदय नहीं, पत्थर है,<br/>जिसमें स्वदेश का प्यार नहीं॥<br/>जिसने साहस को छोड़ दिया,<br/>वह पहुँच सकेगा पार नहीं।<br/>जो जीवित जोश जगा न सका,<br/>उस जीवन में कुछ सार नहीं॥”**</p>                                                                                                                                                                                                       |         |
| क)        | <p>कवि ने किस प्रकार के हृदय को ‘पत्थर’ कहा है?<br/>(क) जिसमें साहस की कमी हो<br/>(ख) जिसमें स्वदेश के प्रति प्रेम और भावनाएँ न हों<br/>(ग) जो कठिनाइयों से घबराता हो<br/>(घ) जो अधिक भावुक हो</p>                                                                                                                                                                                                                                                     | 1       |
| ख)        | <p>“जिसने साहस को छोड़ दिया, वह पहुँच सकेगा पार नहीं” पंक्ति से कवि क्या संदेश देता है?<br/>(क) जीवन में सफलता केवल भाग्य से मिलती है।<br/>(ख) साहस के बिना व्यक्ति कठिनाइयों को पार नहीं कर सकता।<br/>(ग) साहसी व्यक्ति को दूसरों की सहायता नहीं चाहिए।<br/>(घ) जीवन में कठिनाइयों से बचना चाहिए।</p>                                                                                                                                                 | 1       |
| ग)        | <p><b>नीचे कथन और कारण दिए गए हैं—</b><br/><b>कथन:</b> कवि के अनुसार केवल जीवित रहना ही सार्थक जीवन नहीं है।<br/><b>कारण:</b> कविता में कवि ने जीवन में ‘जीवित जोश’ और उत्साह को आवश्यक बताया है।<br/><b>विकल्प:</b><br/>(क) कथन और कारण दोनों सही हैं, और कारण, कथन की सही व्याख्या है।<br/>(ख) कथन और कारण दोनों सही हैं, लेकिन कारण, कथन की सही व्याख्या नहीं है।<br/>(ग) कथन सही है, लेकिन कारण गलत है।<br/>(घ) कथन गलत है, लेकिन कारण सही है।</p> | 1       |
| घ)        | <p>“बहती जिसमें रस-धार नहीं” में ‘रस-धार’ का आशय क्या है?<br/>(क) जल की धारा<br/>(ख) प्रेम, संवेदना और भावनाओं की धारा<br/>(ग) ज्ञान की धारा<br/>(घ) साहस की धारा</p>                                                                                                                                                                                                                                                                                  | 1       |
| ड)        | <p><b>पद्यांश के आधार पर निम्नलिखित में से कौन-सा कथन सर्वाधिक उपयुक्त है?</b><br/>(क) व्यक्ति का जीवन तभी सार्थक है, जब उसमें साहस, उत्साह और स्वदेश-प्रेम हो।<br/>(ख) जीवन में सफलता के लिए केवल शारीरिक शक्ति आवश्यक है।<br/>(ग) देश-प्रेम केवल एक भावना है, जिसका जीवन से कोई संबंध नहीं।<br/>(घ) कठिनाइयों से बचना ही जीवन की सबसे बड़ी सफलता है।</p>                                                                                             | 1       |
| प्रश्न 9  | <p><b>नीचे दिए गए “काव्य प्रश्नों” में से किन्हीं दो का निर्देशानुसार उत्तर दीजिए:-</b><br/><b>क) ‘एक आशीर्वाद’ पाठ के आधार पर स्पष्ट कीजिए कि सच्चा सम्मान धन या उपहार से नहीं, बल्कि व्यवहार और संस्कारों से प्राप्त होता है।</b><br/><b>ख) ‘एक आशीर्वाद’ पाठ में निहित संदेश आज के समाज में किस प्रकार प्रासंगिक है? उदाहरण सहित स्पष्ट कीजिए।</b><br/><b>ग) ‘स्वदेश’ कविता देशभक्ति की भावना को कैसे जाग्रत करती है ?</b></p>                      | (2x2=4) |
| प्रश्न 10 | <p><b>निम्नलिखित गद्यांश के आधार पर पूछे गए बहुविकल्पी प्रश्नों में से सही उत्तर का चुनाव करके लिखिए-</b><br/>“वर्षा के कारण सब ओर हरियाली ही दिखाई पड़ती थी मानो हरे गलीचे की यात्रियों के विश्राम के हेतु बिछायत बिछी थी। एक ओर त्रिभुवनपावनी श्री गंगा जी की पवित्र धारा बहती है, जो राजा भगीरथ की उज्ज्वल कीर्ति की लता-सी दिखाई देती है। जल यहाँ का अत्यंत शीतल है और</p>                                                                         | (5)     |

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|           | मिष्ट भी वैसा ही है मानो चीनी के पने को बरफ में जमाया है। रंग जल का स्वच्छ और श्वेत है और अनेक प्रकार के जल-जंतु कल्लोल करते हुए दिखाई देते हैं।"                                                                                                                                                                                                                                                                                                                                                                                                                      |         |
| (क)       | वर्षा के कारण हरिद्वार का प्राकृतिक वातावरण किस प्रकार दिखाई दे रहा था?<br>(क) सूखा और धूल-भरा<br>(ख) हरा-भरा और मनोहारी<br>(ग) अँधेरा और भयावह<br>(घ) गर्म और शुष्क                                                                                                                                                                                                                                                                                                                                                                                                   | 1       |
| (ख)       | लेखक ने गंगा की धारा की तुलना किससे की है?<br>(क) हरे गलीचे से<br>(ख) बर्फ से<br>(ग) राजा भगीरथ की उज्ज्वल कीर्ति की लता से<br>(घ) पर्वतों की श्रृंखला से                                                                                                                                                                                                                                                                                                                                                                                                              | 1       |
| (ग)       | नीचे कथन और कारण दिए गए हैं—<br>कथन: लेखक ने हरिद्वार के प्राकृतिक दृश्यों का वर्णन अत्यंत प्रभावशाली ढंग से किया है।<br>कारण: लेखक ने हरियाली, गंगा के जल, उसकी शीतलता तथा जल-जंतुओं का वर्णन करते हुए उपमाओं का भी प्रयोग किया है।<br>विकल्प:<br>(क) कथन और कारण दोनों सही हैं, और कारण, कथन की सही व्याख्या है।<br>(ख) कथन और कारण दोनों सही हैं, लेकिन कारण, कथन की सही व्याख्या नहीं है।<br>(ग) कथन सही है, लेकिन कारण गलत है।<br>(घ) कथन गलत है, लेकिन कारण सही है।                                                                                              | 1       |
| (घ)       | गद्यांश के अनुसार गंगा के जल की कौन-सी विशेषता बताई गई है?<br>(क) वह गर्म और खारा है।<br>(ख) वह गंदला और गहरा है।<br>(ग) वह अत्यंत शीतल, मिष्ट और स्वच्छ है।<br>(घ) वह बहुत कम मात्रा में है।                                                                                                                                                                                                                                                                                                                                                                          | 1       |
| (ङ)       | गद्यांश में प्रयुक्त 'हरे गलीचे' की उपमा किसके लिए दी गई है?<br>(क) गंगा के जल के लिए<br>(ख) चारों ओर फैली हरियाली के लिए<br>(ग) पर्वतों के लिए<br>(घ) जल-जंतुओं के लिए                                                                                                                                                                                                                                                                                                                                                                                                | 1       |
| प्रश्न 11 | नीचे दिए गए "गद्य प्रश्नों" में से किन्हीं दो प्रश्नों के उत्तर निर्देशानुसार दीजिए:-<br>क) "लेखक की दृष्टि में यात्रा केवल स्थान बदलना नहीं, बल्कि दृष्टिकोण बदलना भी है।" क्या आप इस कथन से सहमत हैं? 'हरिद्वार' पाठ के आधार पर तर्क सहित उत्तर दीजिए।<br>ख) लेखक के मन में हरिद्वार के प्रति उत्पन्न भाव केवल धार्मिक आस्था के कारण नहीं थे। पाठ के आधार पर इस कथन का विश्लेषण कीजिए।<br>ग) यदि आधुनिक शहरों में गौरियों की संख्या लगातार कम होती रही, तो इसका प्रभाव केवल पक्षियों पर ही नहीं, बल्कि मनुष्य के जीवन पर भी पड़ेगा। अपने विचार पाठ के आधार पर लिखिए। | (2x2=4) |

| ‘खण्ड घ’ – लेखन (कुल अंक 14) |                                                                                                                                                                                                                                                                                     |     |
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| प्रश्न 12                    | दिए गए संकेत-बिन्दुओं के आधार पर निम्न में से किसी एक विषय पर लगभग 80-100 शब्दों में अनुच्छेद लिखिए।<br>क) पर्यावरण संरक्षण – आज की सबसे बड़ी आवश्यकता<br>संकेत-बिंदु: * पर्यावरण संरक्षण का अर्थ<br>* पर्यावरण प्रदूषण के प्रमुख कारण<br>* प्रकृति की रक्षा में नागरिकों की भूमिका | (5) |

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|           | <p>* पर्यावरण संरक्षण के प्रभावी उपाय</p> <p>ख) समय प्रबंधन – सफलता की पहली सीढ़ी</p> <p>संकेत-बिंदु: * समय प्रबंधन का महत्व</p> <p>* विद्यार्थी जीवन में समय का सदुपयोग</p> <p>* समय की बर्बादी के दुष्परिणाम</p> <p>* समय का सही प्रबंधन करने के उपाय</p> <p>ग) कृत्रिम बुद्धिमत्ता (AI) – वरदान या चुनौती?</p> <p>संकेत-बिंदु: * कृत्रिम बुद्धिमत्ता (AI) का परिचय</p> <p>* शिक्षा एवं दैनिक जीवन में AI के लाभ</p> <p>* AI के बढ़ते प्रयोग से उत्पन्न चुनौतियाँ</p> <p>* AI का जिम्मेदारीपूर्वक एवं संतुलित उपयोग</p>                                                                                                                                                             |     |
| प्रश्न 13 | <p>आपके मित्र ने विद्यालय की वार्षिक परीक्षा में अपेक्षित प्रदर्शन न होने के कारण निराशा व्यक्त करते हुए आपको पत्र लिखा है। उसे आत्मविश्वास बनाए रखने, अपनी गलतियों से सीखने और आगे की तैयारी के लिए प्रेरित करते हुए एक पत्र लिखिए।</p> <p>अथवा</p> <p>आपके विद्यालय में 'पुस्तक पढ़ो, विचार बढ़ाओ' अभियान चलाया गया, जिसमें विद्यार्थियों ने अपनी पसंद की पुस्तकों का वाचन और परिचय प्रस्तुत किया। इस अभियान के अनुभव तथा उससे हुए लाभों का वर्णन करते हुए अपने मित्र को एक पत्र लिखिए।</p>                                                                                                                                                                                         | (5) |
| प्रश्न 14 | <p>निम्नलिखित प्रश्नों में से किसी एक विषय पर आकर्षित विज्ञापन कीजिए-</p> <p>आपके विद्यालय द्वारा विद्यार्थियों में पर्यावरण-जागरूकता बढ़ाने के लिए 'हरित सप्ताह' आयोजित किया जा रहा है। इसमें पौधारोपण, पोस्टर-निर्माण, स्वच्छता अभियान तथा पुराने सामान के पुनः उपयोग जैसी गतिविधियाँ आयोजित की जाएँगी। विद्यार्थियों को आकर्षित करने वाला एक विज्ञापन तैयार कीजिए।</p> <p>अथवा</p> <p>आपके क्षेत्र में विद्यार्थियों के लिए एक आधुनिक अध्ययन एवं पठन केंद्र प्रारंभ किया गया है, जहाँ शांत अध्ययन-कक्ष, पुस्तकालय, समाचार-पत्र तथा प्रतियोगी गतिविधियों के लिए उपयोगी सामग्री उपलब्ध है। अधिक-से-अधिक विद्यार्थियों को आकर्षित करने के लिए एक प्रभावशाली विज्ञापन तैयार कीजिए।</p> | (4) |



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SESSION: 2026-27  
MID-TERM EXAMINATION  
SAMPLE PAPER

SUBJECT: MATHEMATICS  
CLASS:VIII

MAX. MARKS: 60  
DURATION: 2.5 hrs

## GENERAL INSTRUCTIONS

1. Read all the questions carefully.
2. This question paper consists of 27 questions in total. All questions are compulsory.
3. Question Paper comprises of 5 sections – A, B, C, D, E.
4. Section A: Q1 to 12 - Multiple Choice Questions (1 mark each)
5. Section B: Q13 to 18 – Very short type Questions (2 mark each)
6. Section C: Q19 to 21 – Short answer type Questions (3 mark each)
7. Section D: Q22 to 24 - Long answer type Questions (5 mark each)
8. Section E: Q25 to 27 - Case study type Questions (4 mark each)

## SECTION A

|   |                                                                                                                                                                                                                                                    |   |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 1 | The cube of which number lies between 15,000 and 16,000?<br>A. 24      B. 25      C. 26      D. 27                                                                                                                                                 | 1 |
| 2 | If two adjacent angle of parallelogram are $(2x+3)^\circ$ and $(3x-8)^\circ$ then find the value of x<br>(a) 45      (b) $30^\circ$ (c) $40^\circ$ (d) $35^\circ$                                                                                  | 1 |
| 3 | If $A = 5^2$ and $B = 2^3$ , what is the unit digit of $A + B$<br>(a) 8      (b) 0      (c) 1      (d) 3                                                                                                                                           | 1 |
| 4 | A shopkeeper buys an article for ₹800 and sells it at a 25% profit. He then uses the entire selling price to buy another article, which he sells at a 20% loss. What is the final amount received?<br>A. ₹900<br>B. ₹960<br>C. ₹1,000<br>D. ₹1,040 | 1 |
| 5 | If $2^4 \times 4^3 = 4^x$ , then, value of x is<br>(a) -5      (b) 5      (c) 4      (d) 7                                                                                                                                                         | 1 |
| 6 | $(a+b)^2 + (a-b)^2$ is equal to<br>(a) 4ab      (b) $2a^2 - 2ab$ (c) $2a^2 + 2b^2$ (d) $a^2 + 2b$                                                                                                                                                  | 1 |
| 7 | Express $16^{-3}$ as a power with base 2<br>(a) $2^{12}$ (b) $2^{-6}$ (c) $2^{-12}$ (d) $2^{-7}$                                                                                                                                                   | 1 |
| 8 | An article is sold for ₹1,380 after a 20% discount. The shopkeeper makes a 15% profit. What is the ratio of the marked price to the cost price?<br>A. 4:3      B. 23:17      C. 5:4      D. 6:5                                                    | 1 |

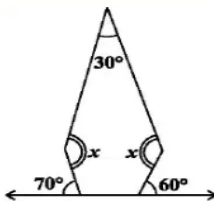
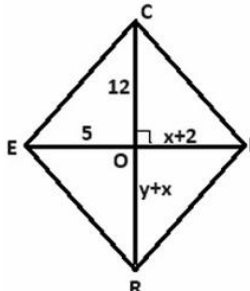
|      |                                                                                                                                                                                                                                                                                                              |   |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 9    | $986^2 - 14^2$ is<br>(a) 972 (b) 9720 (c) 972000 (d) 9720000                                                                                                                                                                                                                                                 | 1 |
| 10   | The ratio of 2 km to 300 m is<br>(a) 2:3 (b) 2:30 (c) 2:300 (d) 3:20                                                                                                                                                                                                                                         | 1 |
| 11.  | Assertion (A): If ₹10,000 is invested at 10% per annum compound interest for 2 years, the compound interest earned is ₹2,100.<br>Reason (R): In compound interest, the interest earned in the first year is added to the principal before calculating the interest for the second year.                      | 1 |
| 12.. | <b>Assertion (A):</b> A square is always a rhombus.<br><b>Reason (R):</b> In a square, all sides are equal, and opposite sides are parallel.<br>(a) Both A and R are true, and R explains A<br>(b) Both A and R are true, but R does not explain A<br>(c) A is true, R is false<br>(d) A is false, R is true | 1 |

### SECTION B

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 13 | In the Magical Pond situation, the number of lotus plants doubles every day. On the first day, there is 1 lotus plant.<br>(a) Write the number of lotus plants on the 8th day in exponential form.<br>(b) How many lotus plants will there be on the 12th day?                                                                                                                                                                                                     | 2 |
| 14 | Simplify and Evaluate<br>$(m-3n) \times (2m+5n)$ for $m=2$ and $n=4$<br>Or<br>A heritage school plans to renovate its old square courtyard used for morning assemblies and cultural activities. Originally, each side of the courtyard measures 54 m. To allow better movement of students, and installation of safety railings, the school management decides to increase the length of each side by 11 m.<br>(i) Write the identity used (ii) Find original area | 2 |
| 15 | A science museum displays a model showing that a particular microscopic quantity is 0.00000072 m.<br>(a) Express this number in standard form using a power of 10.<br>(b) Another quantity is $3.6 \times 10^{-5}$ m. Which quantity is greater? Justify your answer                                                                                                                                                                                               | 2 |
| 16 | Solve using suitable identities<br>(a) $(2x-5y)^2$ (b) $98m^2 - 72n^2$                                                                                                                                                                                                                                                                                                                                                                                             | 2 |
| 17 | The ratio of boys to girls in a class is 3:5 If 6 boys leave and 10 girls join, the ratio becomes 1:2 Find the original number of students in the class.                                                                                                                                                                                                                                                                                                           | 2 |
| 18 | A shopkeeper marks an article 40% above its cost price and then allows a discount of x. If he still makes a 20% profit, find the value of x.<br>Or<br>A sum of ₹8,000 amounts to ₹9,680 when invested at 10% per annum, compounded annually. For how many years was the money invested                                                                                                                                                                             | 2 |

### SECTION C:

|    |                                                                                                                                                                              |   |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 19 | <b>The price of an article is first increased by 20 and then decreased by 25. The final price is ₹1,800. By what fraction of the original price has the price decreased?</b> | 3 |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |   |   |  |   |  |  |  |  |  |  |  |   |  |  |  |  |  |   |  |   |   |  |  |  |   |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|--|---|--|--|--|--|--|--|--|---|--|--|--|--|--|---|--|---|---|--|--|--|---|
| 20        | <p>Find the value of <math>x</math></p> <div></div> <p>OR</p> <p>Find the value of <math>x</math> and <math>y</math> in the given parallelogram</p> <div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3 |   |   |  |   |  |  |  |  |  |  |  |   |  |  |  |  |  |   |  |   |   |  |  |  |   |
| 21        | <p>There are a certain number of ₹10, ₹20 and ₹50 notes available in a box. The ratio of the number of notes of ₹10, ₹20 and ₹50 is 3 : 4 : 6. The total amount available in the box is ₹2,460. Find the amount of ₹10 and ₹50 notes in the box</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3 |   |   |  |   |  |  |  |  |  |  |  |   |  |  |  |  |  |   |  |   |   |  |  |  |   |
| SECTION D |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |   |   |  |   |  |  |  |  |  |  |  |   |  |  |  |  |  |   |  |   |   |  |  |  |   |
| 22        | <p>In a Maths lab there are some cubes and cuboids of the following measurements:</p> <p>(i) one cube of side 5cm</p> <p>(ii) one cube of side 4cm</p> <p>(iii) 3 cuboids each of dimensions 5cm X 5cm X 4cm and 3 cuboids each of dimensions 5cm X 4cm X 4cm</p> <p>A student wants to arrange these cubes and cuboids in the form of a big cube. Is it possible for him/her to arrange them in the form of a big cube? If yes, then find the length of each side of the new cube formed.</p> <p>(i) Show that if a number is doubled, then its cube becomes eight times the cube of the given number.</p> <p>(ii) Find the sides of a cubical box whose volume is <math>64 \text{ cm}^3</math>.</p> <p>OR</p> <p><b>Cross Number Puzzle</b><br/><b>Down</b></p> <div><table><tr><td></td><td></td><td></td><td></td><td>3</td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td>2</td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>4</td><td></td></tr><tr><td>1</td><td>5</td><td></td><td></td><td></td></tr></table></div> <p>1. Smallest number by which 1008 be multiplied to make the resultant a perfect square number.</p> <p>2. Numbers lying between <math>(100)^2</math> and <math>(102)^2</math>.</p> <p>3. Smallest square number that is divisible by each of 5 and 11</p> <p>4. Without adding, find the sum of <math>1 + 3 + 5 + 7 + 9 + 11</math>.</p> <p>5. No. of digits in square root of 213444</p> |   |   |   |  | 3 |  |  |  |  |  |  |  | 2 |  |  |  |  |  | 4 |  | 1 | 5 |  |  |  | 5 |
|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |   | 3 |  |   |  |  |  |  |  |  |  |   |  |  |  |  |  |   |  |   |   |  |  |  |   |
|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |   |   |  |   |  |  |  |  |  |  |  |   |  |  |  |  |  |   |  |   |   |  |  |  |   |
|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2 |   |   |  |   |  |  |  |  |  |  |  |   |  |  |  |  |  |   |  |   |   |  |  |  |   |
|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   | 4 |   |  |   |  |  |  |  |  |  |  |   |  |  |  |  |  |   |  |   |   |  |  |  |   |
| 1         | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |  |   |  |  |  |  |  |  |  |   |  |  |  |  |  |   |  |   |   |  |  |  |   |
| 23        | <p>A shopkeeper bought ₹1 coins and ₹2 coins in a certain ratio. He bought 240 coins in all. The cost price of each ₹1 coin was ₹0.80, while each ₹2 coin cost him ₹1.60.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5 |   |   |  |   |  |  |  |  |  |  |  |   |  |  |  |  |  |   |  |   |   |  |  |  |   |

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|    | <p>He sold all the ₹1 coins at a 25% profit and all the ₹2 coins at a 12.5% profit.</p> <p>(a) If the ratio of ₹1 coins to ₹2 coins was 3 : 5, find the number of each type of coin. (1 mark)</p> <p>(b) Find the total cost price of all the coins. (1 mark)</p> <p>(c) Find the selling price of each type of coin and hence calculate the total selling price. (2 marks)</p> <p>(d) Find the overall profit percentage earned by the shopkeeper. (1 mark)</p>                                                                                                                                                                                                                                                            |   |
| 24 | <p>A rectangular school garden has a length of <math>2x-1</math> metres and a breadth of <math>3x+5</math> metres. A pathway of uniform width is constructed inside the garden along all four sides, leaving a smaller rectangular region of length <math>3x-1</math> metres and breadth <math>2x-5</math> metres.</p> <p>Answer the following:</p> <p>(a) Using the distributive property, expand and simplify the area</p> <p>(b) Find the area of the smaller rectangular region and simplify your answer.</p> <p>(c) Hence, find the area occupied by the pathway and express your answer in its simplest polynomial form.</p> <p>Find the cost of paving if <math>x = 20</math> m and rate is 100 per square metre</p> | 5 |

### SECTION E

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 25    | <p>An art exhibition is being set up in a perfectly square hall.</p> <p>The paintings will be placed equally spaced along each wall so that the same number of paintings is on each side.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 4 |
| (i)   | If the total number of paintings is a perfect square between 100 and 150, find all possible numbers of paintings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |
| (ii)  | <p>From your answer in Part (a), choose one possible total and determine how many paintings will be placed on each side of the hall.</p> <p>OR</p> <p>(Express the square of odd number obtained in part (a) as sum of consecutive numbers</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |   |
| (iii) | Prove that if a number is a perfect square, then it has an odd number of total factors. Use your chosen total from Part (b) to illustrate the property.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |   |
| 26    | <p>A space agency is tracking a newly discovered galaxy. Its computer records approximately 720 quadrillion data particles during one observation. The scientist writes this number in standard form as <math>7.27 \times 10^{17}</math>.</p> <p>During the next observation, the computer records <math>3 \times 10^4</math> times as many particles as in the first observation.</p> <p>Answer the following:</p> <p>(a) Write 720 quadrillion in usual form .</p> <p>(b) Find the number of particles recorded during the second observation. Express your answer in standard form, using the laws of exponents</p> <p>(c) A student claims that <math display="block">\frac{(3 \times 10^4)(7.2 \times 10^{17})}{6 \times 10^2} = 3.6 \times 10^{19}.</math></p> <p>Check the student's answer using the laws of exponents. If it is incorrect, find the correct answer and write it in usual form.</p> | 4 |
| 27    | Riya starts a small stationery business. She buys a premium calculator for ₹2,500. To fix                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 4 |

its selling price, she marks it 32% above the cost price. During a festival sale, she gives a 10% discount on the marked price.

She invests the profit earned from the sale in a savings scheme that offers 10% compound interest per annum, compounded annually.

Answer the following:

(a) Find the marked price of the calculator.

(b) Find the selling price after the discount and hence determine the profit percentage earned on the calculator.

(c) Attempt either (i) or (ii):

(i) The profit earned is invested for 2 years at 10% compound interest per annum. Find the amount received after 2 years.

OR

(ii) The profit earned is invested at 10% compound interest per annum. After 2 years, the amount becomes ₹605. Find the profit initially invested.



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SESSION: 2026-27

MID-TERM EXAMINATION

SAMPLE PAPER

SUBJECT: Science

CLASS: VIII

MAX. MARKS: 60

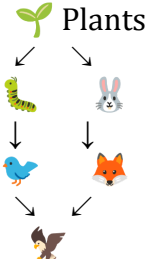
DURATION: 2 hours 30 min

## GENERAL INSTRUCTIONS

1. Read all the questions carefully.
2. This question paper consists of **26 questions in total. All questions are compulsory.**
3. Question Paper comprises of **5 sections – A, B, C, D and E**
4. **Section A:** Q1 to 6 - Multiple Choice Questions (1 mark each)
5. **Section B:** Q 11 to 15 are Very short answer type questions, carrying 2 marks each. Answers to these questions should in the range of 30 to 50 words.
6. **Section C:** Q16 to 21 are short answer type questions, carrying 3 marks each. Answers to these questions should in the range of 50 to 80 words
7. **Section D:** Q22 to 24 are source-based/case-based questions carrying 4 Marks each with sub-parts.
8. **Section E:** Q 25 to 26 are long answer type questions carrying 5 marks each. Answer to these questions should be in the range of 80 to 120 words
9. Question Paper consists of **7 sheets.**
10. Internal instructions and options are provided in some questions.

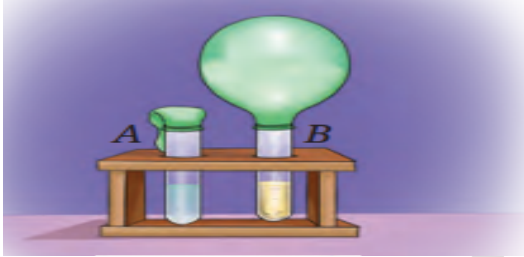
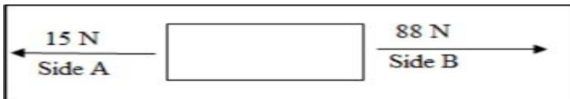
## SECTION A: (1 x 10 = 10 MARKS )

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 1 | A student prepares two slides:<br>Slide 1: Onion peel + stain + glycerin + coverslip<br>Slide 2: Onion peel + glycerin + coverslip<br>She observes that the structures in A are easier to distinguish.<br>Which conclusion is most scientifically justified?<br>(a) Staining increased the size of the cells.<br>(b) Staining probably improved the contrast and hence visibility of structures.<br>(c) Glycerin has no role in microscopic observation.<br>(d) The cells in A are biologically different from those in B. | 1 |
| 2 | A student says:<br>"If a vaccine does not guarantee that I will never get an infection, vaccination is useless."<br>Which response best challenges this reasoning?<br>(a) Vaccination can prepare the immune system to respond more effectively to a pathogen.<br>(b) Vaccines make every person permanently disease-proof.<br>(c) Vaccines work only by killing all microorganisms outside the body.<br>(d) Vaccination eliminates the need for hygiene.                                                                  | 1 |
| 3 | A student is prescribed an antibiotic for a bacterial infection. She starts feeling better after three days and stops taking the medicine. Later, she develops another bacterial infection, but the same antibiotic is not effective.                                                                                                                                                                                                                                                                                      | 1 |

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|   | <p>Which explanation best accounts for this observation?</p> <p>(a) Stopping the antibiotic early can allow some less-sensitive bacteria to survive and multiply, increasing the chance of antibiotic resistance.</p> <p>(b) Antibiotics make the human body permanently resistant to all medicines.</p> <p>(c) Antibiotic resistance occurs because bacteria become larger after exposure to medicines.</p> <p>(d) Antibiotics are effective against all types of disease-causing microorganisms.</p> |   |
| 4 | <p>Which of the following statements is WRONG?</p> <p>(a) The cell wall of fungi is made up of chitin.</p> <p>(b) Protozoans are unicellular organisms.</p> <p>(c) Yeast is one of the unicellular exceptions among fungi, as most fungi are multicellular.</p> <p>(d) Lactobacillus is spherical in shape and helps in converting lactose sugar into lactic acid.</p>                                                                                                                                 | 1 |
| 5 | <p>In a forest, plants capture energy, herbivores feed on plants, carnivores feed on other animals and decomposers break down dead matter.</p> <p>What would most likely happen if decomposers disappeared?</p> <p>(a) Nutrients would be recycled more slowly, affecting the availability of nutrients for plants.</p> <p>(b) Plants would immediately produce more nutrients.</p> <p>(c) All animals would become producers.</p> <p>(d) Energy would be created from nothing.</p>                    | 1 |
| 6 | <p>Ball bearings are used in machines mainly because they:</p> <p>(a) Reduce area of contact</p> <p>(b) Increase frictional force</p> <p>(c) Convert sliding friction into rolling friction</p> <p>(d) Increase speed of machines</p>                                                                                                                                                                                                                                                                  | 1 |
| 7 |  <p>If the plant population decreases sharply, which prediction is most reasonable?</p> <p>(a) All consumers depending directly or indirectly on plants may be affected.</p> <p>(b) Only plants will be affected.</p> <p>(c) Predators will automatically increase.</p> <p>(d) The ecosystem will remain exactly unchanged.</p>                                                                                     | 1 |
| 8 | <p>A student wants to investigate whether the length of a wire affects its heating.</p> <p>Which investigation would be the fairest?</p> <p>(a) Use wires of different lengths but different materials and thicknesses.</p> <p>(b) Use wires of the same material and thickness but different lengths, keeping the battery and time the same.</p> <p>(c) Change the length, battery and thickness simultaneously.</p> <p>(d) Use only one wire and change nothing.</p>                                 | 1 |
|   | <p><b>ASSERTION-REASON TYPE QUESTIONS</b></p> <p>Directions- Q-9 to 10 are Assertion Reason Type Questions. Choose the Correct answer from the options given below.</p>                                                                                                                                                                                                                                                                                                                                |   |

|    |                                                                                                                                                                                                                                                                                                                                                                                                              |   |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|    | <p>(a) Assertion and reason both are correct statements and reason is the correct explanation for assertion.</p> <p>(b) Assertion and reason both are correct statements and reason is not the correct explanation for assertion.</p> <p>(c) Assertion is the correct statement but the reason is the wrong statement.</p> <p>(d) Assertion is a wrong statement but the reason is the correct statement</p> |   |
| 9  | <p><b>Assertion (A):</b> When two wires are connected to the same battery for the same duration, one wire may become hotter than the other.</p> <p><b>Reason (R):</b> The amount of heat produced in a wire depends, among other factors, on its electrical resistance.</p>                                                                                                                                  | 1 |
| 10 | <p><b>Assertion (A):</b> A person may spread a communicable disease even before they realise that they are infected.</p> <p><b>Reason (R):</b> Some infected people may not show noticeable symptoms while still being capable of transmitting the infection.</p>                                                                                                                                            | 1 |

### SECTION B: (2X5 = 10 MARKS)

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 11 | <p>Aanandi took two test tubes and marked them A and B. She put two spoonfuls of sugar solution in each of the test tubes. In test tube B, she added a spoonful of yeast. Then she attached two incompletely inflated balloons to the mouth of each test tube. She kept the setup in a warm place, away from sunlight.</p>  <p>(a) Explain why the balloon on test tube B inflated, mentioning the process involved and the reason why the balloon on test tube A did not inflate</p> <p>(b) How can you test which gas is present inside the inflated balloon.</p> | 1<br>1 |
| 12 | <p>In a tug of war, Side A applies 15N force and side B applies 88N force. Which side will the rope move? What will be the net force acting on the rope?</p>                                                                                                                                                                                                                                                                                                                                                                                                       | 2      |
| 13 |  <p>(a) Which force is acting opposite to the motion of the parachutist? How does this force help the parachutist?</p> <p>(b) Why does heating the air inside the hot air balloon help it rise?</p>                                                                                                                                                                                                                                                                                                                                                                | 1<br>1 |

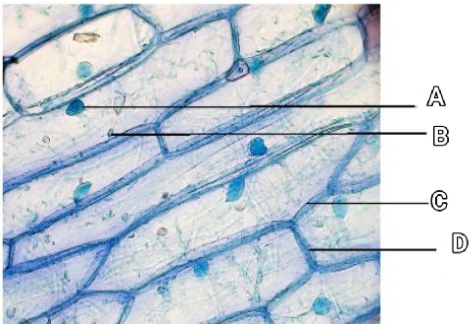
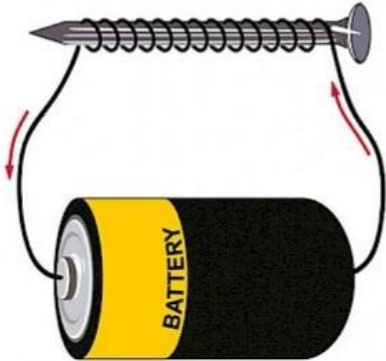
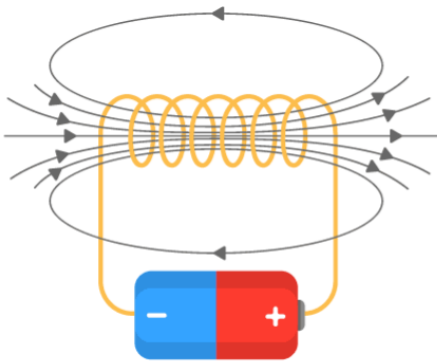
|           |                                                                                                                                                                                                                                                                           |          |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>14</b> | A particular species of insect disappears from an ecosystem. Although the insect is not a major food source for humans, several other organisms are affected. What does this observation tell us about the interdependence of organisms in an ecosystem? Give two points. | <b>2</b> |
| <b>15</b> | If all the decomposers in a forest ecosystem suddenly disappeared, what two major changes would you expect to occur? Explain why.                                                                                                                                         | <b>2</b> |

**SECTION C: (3X6 = 18 MARKS)**

|           |                                                                                                                                                                                                                                                                                                                                                                                                               |                                      |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| <b>16</b> | A student says, "Vaccines are unnecessary because vaccinated people can sometimes still get an infection."<br>Do you agree with the student? Give three scientifically relevant points to justify your answer.                                                                                                                                                                                                | <b>3</b>                             |
| <b>17</b> | A student observes a sample of Lactobacillus under a microscope while studying the microorganisms involved in the preparation of curd.<br>Answer the following:<br>(a) What shape would you expect the Lactobacillus cells to have when observed under the microscope?<br>(b) Name the microorganism used in bread-making and wine-making, and state how it helps in either of these processes.               | <b>1</b><br><b>2</b>                 |
| <b>18</b> | A large steel ship is able to float on water, even though a small steel nail sinks.<br>Answer the following:<br>(a) Why does the steel nail sink while the ship floats?<br>(b) How does the shape of the ship help it float?<br>(c) Which principle explains the upward force exerted by water on the ship? What does this principle state?                                                                   | <b>1</b><br><b>1</b><br><b>1</b>     |
| <b>19</b> | (a) Draw a neat, labelled diagram of a simple galvanic (voltaic) cell<br>(b) A dry cell can supply electrical energy without being connected to an external power source during use. What conversion of energy takes place inside the cell to produce electricity?                                                                                                                                            | <b>2</b><br><b>1</b>                 |
| <b>20</b> | Observe the given picture and answer the following:<br><br>a) Identify the device shown in the picture.<br>b) Why is an electromagnet used in this device instead of a permanent magnet?<br>c) State one advantage of using an electromagnet in such a crane.                                                              | <b>0.5</b><br><b>1.5</b><br><b>1</b> |
| <b>21</b> | A farmer notices that the number of frogs in and around his field has decreased considerably after the use of pesticides. A few weeks later, the number of insects increases and the crops suffer greater damage.<br>Answer the following:<br>(a) How could the decrease in frogs have led to an increase in insects?<br>(b) How might this increase in insects affect other organisms in the local food web? | <b>1</b><br><b>1</b>                 |

|  |                                                                                                                                                                        |   |
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|  | (c) Suggest one approach the farmer could adopt to control pests while maintaining ecological balance.                                                                 | 1 |
|  | OR                                                                                                                                                                     |   |
|  | Two students prepare onion-peel slides. Student A stains the specimen and uses glycerin, while Student B observes an unstained specimen. Both use similar microscopes. |   |
|  | (a) Which student's specimen is likely to show the cellular structures more clearly?                                                                                   | 1 |
|  | (b) Why does student A used glycerine?                                                                                                                                 | 1 |
|  | (c) Why should both students ideally use the same magnification when comparing their observations?                                                                     | 1 |

**SECTION - D (4X3 = 12 MARKS)**

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 22 |  <p>Maya observed a specimen under a microscope and it looked like the picture given above.</p> <p>Label A, B, C and D and state functions of each in brief.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 4      |
| 23 | <p>Observe the two solenoids shown in the given pictures. Two students, A and B, have made these different solenoids using a battery and a coil of insulated wire.</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <p>ELECTROMAGNET OF STUDENT A.      ELECTROMAGNET OF STUDENT B</p> <p>(a) Which of the two solenoids is likely to produce a stronger magnetic field? Give a reason for your answer based on the construction shown in the pictures.</p> <p>(b) A third student makes a similar solenoid but uses a copper nail as the core instead of an iron nail. Another student uses an aluminium nail instead of an iron nail. What would happen to the strength of the magnetic field in these two cases?</p> | 2<br>2 |
| 24 | A pond contains fish of the same species, frogs, aquatic plants, insects and microorganisms, along with water, sunlight, dissolved oxygen and soil.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |

|  |                                                                                                                                                                                                                                                                                                                                                        |                                  |
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|  | A student says, "All the living organisms in the pond together form a population."<br>(a) Is the student's statement correct? Give a reason.<br>(b) What term would be used for all the different populations of organisms living together in the pond?<br>(c) Explain why the pond cannot function properly by considering only its living organisms. | <b>1</b><br><b>1</b><br><b>2</b> |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|

**SECTION - E (5X2 = 10 MARKS)**

| 25              | <p>Rohan eats nutritious food and exercises regularly. However, he sleeps only 4–5 hours every night, remains stressed because of academic pressure and rarely spends time with friends or family.</p> <p>Answer the following:</p> <p>(a) Why cannot Rohan's health be considered completely healthy merely because he exercises and eats nutritious food?</p> <p>(b) Identify two dimensions of health that may be affected by his lifestyle.</p> <p>(c) Suggest two changes that could improve his overall well-being</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1<br>2<br>2 |             |                 |                                                                 |               |                                                                                     |                 |                                                      |         |                                                      |             |                                                    |                 |                                                      |             |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-----------------|-----------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------|-----------------|------------------------------------------------------|---------|------------------------------------------------------|-------------|----------------------------------------------------|-----------------|------------------------------------------------------|-------------|
| 26              | <p>Simran bought four shoes for himself and his brother. He observed the shoe soles The picture shows four types of shoe soles. He returned one of the shoe to the shop. His brother asked the reason.</p> <div></div> <p>a)Which shoe sole provides the best grip and friction while walking?</p> <p>b)How is friction used while walking?</p> <p>c)Why is it easier to keep a box moving than to make the box start moving from rest?</p> <p style="text-align: center;"><b>OR</b></p> <p>A student observes the following devices and their working:</p> <table><tr><th>Device</th><th>Observation</th></tr><tr><td>Electric heater</td><td>A coil becomes red hot when electric current passes through it.</td></tr><tr><td>Electric iron</td><td>The soleplate becomes hot when electric current passes through the heating element.</td></tr><tr><td>Electric kettle</td><td>The heating element becomes hot and heats the water.</td></tr><tr><td>Toaster</td><td>The heating elements become hot and toast the bread.</td></tr><tr><td>Room heater</td><td>The heating element becomes hot and produces heat.</td></tr><tr><td>Electric geyser</td><td>The heating element becomes hot and heats the water.</td></tr></table> | Device      | Observation | Electric heater | A coil becomes red hot when electric current passes through it. | Electric iron | The soleplate becomes hot when electric current passes through the heating element. | Electric kettle | The heating element becomes hot and heats the water. | Toaster | The heating elements become hot and toast the bread. | Room heater | The heating element becomes hot and produces heat. | Electric geyser | The heating element becomes hot and heats the water. | 1<br>2<br>2 |
| Device          | Observation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |             |                 |                                                                 |               |                                                                                     |                 |                                                      |         |                                                      |             |                                                    |                 |                                                      |             |
| Electric heater | A coil becomes red hot when electric current passes through it.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |             |                 |                                                                 |               |                                                                                     |                 |                                                      |         |                                                      |             |                                                    |                 |                                                      |             |
| Electric iron   | The soleplate becomes hot when electric current passes through the heating element.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |             |                 |                                                                 |               |                                                                                     |                 |                                                      |         |                                                      |             |                                                    |                 |                                                      |             |
| Electric kettle | The heating element becomes hot and heats the water.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |             |                 |                                                                 |               |                                                                                     |                 |                                                      |         |                                                      |             |                                                    |                 |                                                      |             |
| Toaster         | The heating elements become hot and toast the bread.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |             |                 |                                                                 |               |                                                                                     |                 |                                                      |         |                                                      |             |                                                    |                 |                                                      |             |
| Room heater     | The heating element becomes hot and produces heat.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             |             |                 |                                                                 |               |                                                                                     |                 |                                                      |         |                                                      |             |                                                    |                 |                                                      |             |
| Electric geyser | The heating element becomes hot and heats the water.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |             |                 |                                                                 |               |                                                                                     |                 |                                                      |         |                                                      |             |                                                    |                 |                                                      |             |

|  |                                                                                                                                                                            |          |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
|  | (a) The coil of an electric heater becomes very hot when current passes through it. Which property of the coil is mainly responsible for producing a large amount of heat? | <b>1</b> |
|  | (b) What is the name given to the specially designed wire or coil in an electrical appliance that converts electrical energy into heat energy?                             | <b>2</b> |
|  | (c) State two possible undesirable effects of excessive heating caused by electric current in electrical appliances                                                        | <b>2</b> |

SAMPLE PAPER (MID-TERM)



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**SOCIAL SCIENCE SAMPLE PAPER**

**CLASS VIII**

**Time: 2 Hours 30 Minutes**

**Maximum Marks: 60**

**General Instructions**

The question paper is divided into **Four Subject Sections**:

**Part I: History (15 Marks)**

**Part II: Geography (15 Marks)**

**Part III: Political Science / Civics (20 Marks)**

**Part IV: Economics (10 Marks)**

All questions are compulsory. Internal choices are provided in long answer questions.

Attach the map accurately with the answer script.

**SECTION A PART I: HISTORY (15 MARKS)**

|            |                                                                                                                                                                                                                                                                                                                                                                                       |   |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| <b>Q1.</b> | Objective Type (1 Mark)<br>Which development most directly contributed to the emergence of new political formations in the Indian subcontinent during the eighteenth century?<br>A. Decline of the Mughal Empire and rise of regional powers<br>B. Introduction of universal adult franchise<br>C. Establishment of the modern Parliament<br>D. Introduction of industrial production | 1 |
| <b>Q2.</b> | Shivaji Maharaj wanted to establish <i>Swarajya</i> . Which of the following best expresses the idea associated with this objective?<br>A. Expansion of Mughal authority<br>B. Establishment of self-rule<br>C. Complete abolition of agriculture<br>D. Establishment of European control                                                                                             | 1 |
| <b>Q3.</b> | Very Short Answer<br>Explain any two factors that contributed to the rise of regional powers during the eighteenth century.                                                                                                                                                                                                                                                           | 2 |
| <b>Q4.</b> | Short Answer<br>How did the decline of central Mughal authority contribute to the emergence of autonomous regional kingdoms? Explain.<br><b>OR</b><br>Explain any three important administrative features introduced by Shivaji Maharaj.                                                                                                                                              | 3 |
| <b>Q5.</b> | Long Answer<br>Explain the major factors responsible for the rise of the Marathas under Shivaji Maharaj. Discuss how Shivaji Maharaj strengthened the Maratha state through his administrative and military measures.<br><b>OR</b>                                                                                                                                                    | 5 |

|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|                                      | Explain the political conditions in India that facilitated the emergence of regional powers during the eighteenth century. How did these developments contribute to the reshaping of India's political map?                                                                                                                                                                                                                                                                                                                                                                                              |   |
| <b>Q6.</b>                           | <p>Map Work</p> <p>On the outline political map of India, locate and label <b>any two</b> of the following places associated with the rise of the Maratha Empire:</p> <p>(i) Raigad<br/>(ii) Pune<br/>(iii) Satara</p>                                                                                                                                                                                                                                                                                                                                                                                   | 2 |
| <b>PART II: GEOGRAPHY (15 MARKS)</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |
| <b>Q7.</b>                           | <p>Objective Type (1 Mark)</p> <p>A region has abundant sunlight, fertile soil, and sufficient water. However, its agricultural productivity remains low because farmers do not have access to suitable technology and irrigation facilities. Which statement best explains the situation?</p> <p>A. Natural resources alone determine economic development.<br/>B. Resources become useful only when appropriate human knowledge and technology are available.<br/>C. Human resources cannot influence the use of natural resources.<br/>D. Technology reduces the importance of natural resources.</p> | 1 |
| <b>Q8.</b>                           | <p>A mineral-rich region is experiencing rapid industrial development because minerals are being extracted and processed there. Which of the following best explains why minerals are considered important natural resources?</p> <p>A. They are unlimited and can be replaced quickly.<br/>B. They are used as raw materials and support various economic activities.<br/>C. They are produced naturally by industries.<br/>D. They have no relationship with human economic activities.</p>                                                                                                            | 1 |
| <b>Q9.</b>                           | <p>Very Short Answer</p> <p>Differentiate between renewable and non-renewable resources, giving one suitable example of each.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2 |
| <b>Q10.</b>                          | <p>Why is the conservation of natural resources necessary? Give any two reasons.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2 |
| <b>Q11.</b>                          | <p>Long Answer (5 Marks)</p> <p><i>"Natural resources are valuable only when human beings have the knowledge, skills, and technology to use them."</i></p> <p>Explain the statement with reference to:<br/>Availability of resources, Human knowledge and skills, Technology, Economic activities<br/>Conservation of resources</p> <p><b>OR</b></p> <p>Explain the importance of the sustainable use of natural resources. Suggest suitable measures for conserving resources for future generations.</p>                                                                                               | 5 |
| <b>Q12.</b>                          | Source-Based Question (4 Marks)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 4 |

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|             | <p><b>Read the source carefully and answer the questions that follow:</b></p> <p>Natural resources are essential for human life and economic activities. People depend on resources such as land, water, forests, minerals, and energy resources for a variety of purposes. Agriculture requires land and water, while industries depend on minerals and other raw materials. However, the availability of resources alone does not guarantee their effective use. Human beings use their knowledge, skills, and technology to transform natural resources into useful products. The development of technology has enabled people to extract resources from places where they were previously difficult to access.</p> <p>At the same time, the increasing use of resources can create serious challenges. Excessive exploitation may lead to the depletion of resources and cause environmental problems. The needs of present society therefore have to be balanced with the needs of future generations. Conservation does not mean that resources should never be used; rather, it requires their careful and responsible utilisation. Proper planning, efficient use of resources, and the adoption of suitable methods can help society meet its present requirements while protecting resources for the future.</p> <p><b>a. Name any one natural resource mentioned in the source. (1 Mark)</b></p> <p><b>b. Why does the availability of natural resources alone not guarantee their effective use? (1 Mark)</b></p> <p><b>c. How can excessive exploitation of resources create problems? (1 Mark)</b></p> <p><b>d. Suggest one measure for the conservation of natural resources. (1 Mark)</b></p> |   |
|             | <b>PART III: POLITICAL SCIENCE / CIVICS (20 MARKS)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |
| <b>Q13.</b> | <p><b>Objective Type (1 Mark)</b></p> <p>A citizen reaches the age of 18 and wants to participate in elections. Which democratic principle enables the citizen to vote irrespective of caste, religion, gender, or economic status?</p> <p>A. Universal adult franchise<br/>B. Collective responsibility<br/>C. Separation of powers<br/>D. Judicial review</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1 |
| <b>Q14.</b> | <p><b>Assertion (A):</b> Elections are an important feature of a representative democracy.<br/><b>Reason (R):</b> Elections enable citizens to choose their representatives.</p> <p>A. Both A and R are true, and R is the correct explanation of A.<br/>B. Both A and R are true, but R is not the correct explanation of A.<br/>C. A is true, but R is false.<br/>D. A is false, but R is true.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1 |
| <b>Q15.</b> | <p>The Lok Sabha passes a bill, but the government must ensure that the law is implemented through the administrative machinery. Which organ is primarily responsible for implementing laws?</p> <p>A. Legislature<br/>B. Executive<br/>C. Judiciary<br/>D. Election Commission</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1 |

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| <b>Q16.</b> | <p>A state government wants to introduce a new policy. The Council of Ministers discusses the proposal, while the legislature debates and approves the required legislation. What does this situation demonstrate?</p> <p>A. Separation between all forms of government<br/> B. Relationship between the legislature and executive<br/> C. Complete independence of the executive from the legislature<br/> D. Absence of representative government</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1 |
| <b>Q17.</b> | <p>Very Short Answer</p> <p>What is meant by universal adult franchise? Why is it important in a democracy?</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2 |
| <b>Q18.</b> | <p>Explain the difference between the functions of the legislature and the executive.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2 |
| <b>Q19.</b> | <p>Short Answer</p> <p>Why is the right to vote an important political right in a democratic country? Explain any three points.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3 |
| <b>Q20.</b> | <p>Long Answer</p> <p>Explain how the Parliamentary system functions in India. In your answer, discuss:</p> <p>The role of the legislature<br/> The role of the executive<br/> The relationship between the two<br/> The importance of the Council of Ministers<br/> The principle of collective responsibility</p> <p><b>OR</b></p> <p>Explain the significance of universal adult franchise and elections in India's democratic system. How do elections enable citizens to participate in the formation and functioning of the government?</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5 |
| <b>Q21.</b> | <p>Source-Based Question (4 Marks)</p> <p><b>Read the source carefully and answer the questions that follow:</b></p> <p>India follows a parliamentary system of government in which the legislature and executive have closely connected roles. The Parliament is responsible for making laws and exercising control over the functioning of the government. The executive is responsible for implementing laws and administering the country. The Council of Ministers, headed by the Prime Minister, plays a central role in the functioning of the executive. The Council of Ministers is collectively responsible to the Lok Sabha. This means that the government must retain the confidence and support of the elected representatives in the Lok Sabha. Elections are an essential part of this democratic system because they enable citizens to choose their representatives. Universal adult franchise ensures that adult citizens have the right to participate in elections without discrimination on the basis of their social or economic position, subject to the constitutional provisions governing elections. Through elections, citizens participate in choosing representatives who make laws and form governments. Thus, the parliamentary system connects the participation of citizens with the functioning and accountability of the government.</p> <p><b>a. Which organ is primarily responsible for making laws? (1 Mark)</b><br/> <b>b. Who heads the Council of Ministers? (1 Mark)</b><br/> <b>c. What does collective responsibility mean in the parliamentary system? (1 Mark)</b></p> | 4 |

|             |                                                                                                                                                                                                                                                                                                                                |   |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|             | <b>d. How does universal adult franchise strengthen democracy? (1 Mark)</b>                                                                                                                                                                                                                                                    |   |
|             | <b>PART IV: ECONOMICS (10 MARKS)</b>                                                                                                                                                                                                                                                                                           |   |
| <b>Q22.</b> | Objective Type (1 Mark)<br>A farmer owns land, uses seeds and tools, and works on the field. Another person provides capital for purchasing machinery, while hired workers assist in cultivation. Which factor of production is represented by the hired workers?<br>A. Land<br>B. Labour<br>C. Capital<br>D. Entrepreneurship | 1 |
| <b>Q23</b>  | A person decides how land, labour, and capital should be combined to establish a new enterprise and takes the risk of running it. Which factor of production does this situation primarily represent?<br>A. Labour<br>B. Land<br>C. Capital<br>D. Entrepreneurship                                                             | 1 |
| <b>Q24.</b> | Short Answer<br>Explain any three ways in which human beings use natural resources for their survival and economic activities.                                                                                                                                                                                                 | 3 |
| <b>Q25.</b> | Long Answer<br>Describe the four main factors of production— <b>Land, Labour, Capital, and Entrepreneurship</b> —using a suitable example of an agricultural or industrial activity. Explain why each factor is essential for production.                                                                                      | 5 |



# N. K. BAGRODIA GLOBAL SCHOOL

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SESSION: 2026-27  
MID-TERM EXAMINATION  
SAMPLE PAPER

SUBJECT: CT & AI  
CLASS: VIII

MAX. MARKS: 20  
DURATION: 1 .5 hours

## GENERAL INSTRUCTIONS

1. Read all the questions carefully.
2. This question paper consists of 30 questions in total. All questions are compulsory.
3. Part A is Computational thinking with 20 questions 1 mark each
4. Part B is Artificial intelligence with 10 questions 1 mark each

## PART A COMPUTATIONAL THINKING

1. Each geometrical shape denotes a certain operation. What will come in place of "?"  

16

 $\longrightarrow$ 
**256**

19

 $\longrightarrow$ 
**361**

15

 $\longrightarrow$ 
**3375**

11

 $\longrightarrow$ 
**1331**

14

 $+$ 

12

 $\longrightarrow$ 
?

a) 2888 b) 1914 c) 1924 d) 340
2. A team is to be formed from a group of 7 students: A, B, C, D, E, F, and G where:
  - A and B cannot be in the same team, but at least one of them must be included in the team
  - C and D must either both be included or both be excluded from the team
  - E and F must either both be included or both be excluded from the team
 If the team consists of 4 students, in how many different ways can it be formed?  
 a) 2 b) 4 c) 3 d) 6
3. Find the option that does NOT belong to the elements in the given set.  
 Set = (Angle between diagonals of a Rhombus, Each angle of a rectangle, Each angle of a square)  
 a) Angle inscribed in a semicircle b) Half of sum of opposite angles of a Cyclic Quadrilateral c) Each angle of an Equilateral Triangle d) Angle opposite to Hypotenuse in a Right - Angled Triangle
4. If AB is a two-digit number whose cube is in the form of a 4-digit number "         C" such that  $A < C < B$ , how many different values can C have?  
 a) 2 b) 3 c) 4 d) More than 4
5. Let X, Y, and Z be single-digit whole numbers. The number XY is a two-digit number formed using digits X and Y. If  $4000 < (XYZ)Z < 5000$ , what is the minimum possible value of XY?  
 a) 10 b) 16 c) 17 d) 15
6. XYZ is a 3-digit number such that it is the square of a multiple of 5. What will be the HIGHEST possible remainder of  $(XYZ)/100$ ?  
 a) 10 b) 15 c) 20 d) 25

7

A man has a bag with a maximum capacity of 24 units. He earns certain points for the books he carries in that bag and the load of each book is shown in the table below:

- For every Management book added to the bag, 2 Fiction books must be added
- For every Mathematics book added to the bag, 2 Physics books must be added

If he has to carry at least one book of each genre, what is the maximum number of points he can earn without exceeding the bag's capacity?

| BOOK GENRE  | LOAD  | POINTS |
|-------------|-------|--------|
| Management  | $2^2$ | $2^5$  |
| Mathematics | $2^1$ | $2^4$  |
| Physics     | $2^0$ | $2^3$  |
| Fiction     | $2^0$ | $2^2$  |

a) 116 b) 120 c) 112 d) 104

8

Sam has Rs. 4000 in such a way that he has Re. 1 coins in power of 10, Rs. 2 coins in power of 5, Rs. 5 coins in power of 2, and the remaining coins of Rs. 10. The amount of money of each individual denomination of Re. 1, Rs. 2, and Rs. 5 is greater than or equal to thousand. At MAXIMUM, how many coins of Rs. 10 can he have?

a) 53 b) 47 c) 38 d)

9

A class teacher wrote the following pattern on the board, expression is written after the "=" sign in each row. She then class to find the expression for  $133 - 123$ . Which DIGIT the HIGHEST number of times in the expression that denotes

$$2^3 - 1^3 = 1 + 2 \times 1 \times 3$$
$$3^3 - 2^3 = 1 + 3 \times 2 \times 3$$
$$4^3 - 3^3 = 1 + 4 \times 3 \times 3$$

Find the value of  $13^3 - 12^3$

where an asked the appears  $133 - 123$ ?

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

10

The image below shows a logic machine, where numbers move from Column to Column (starting from column 1 as input and reach column 4) through the tunnel, where they change in a different way, each time. What would be the sum of A, B, and C?

| Column 1 | Column 2 | Column 3 | Column 4 |
|----------|----------|----------|----------|
| 4        | 15       | 6        | 216      |
| 22       | 483      | 15       | 3375     |
| 11       | 120      | 3        | 27       |
| 7        | A        | B        | C        |

a) 2259      b) 1795      c) 180      d) 1788

11

What will come in place of "?"

4

→

256

2

→

64

5

→

243

3

→

125

3

→

?

a) 243 b) 125 c) 343 d) 2187

12

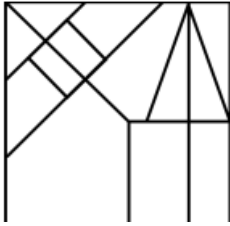
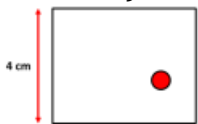
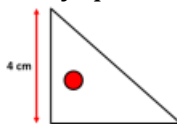
Sam and Tim are playing a number-maximizing game. Their numbers are shown in the table below (where A and B are undefined). They must modify their numbers using ONLY ONE of the following rules: ● If the base is smaller than the exponent, the base n is replaced with  $1/n$  ● If the base is greater than the exponent, the exponent n is replaced with  $1/n$  Sam and Tim choose A and B and apply the rule exactly once in a way that maximizes their own numbers. What is the difference between the final numbers of Sam and Tim, where A and B are single-digit natural numbers?

|              |       |
|--------------|-------|
| Sam's number | $4^A$ |
| Tim's number | $B^2$ |

a) 2 b) 3 c) 1 d) 0

13

How many quadrilaterals are there in the given figure?

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    |    |  |   |    |     |  |  |   |  |   |    |  |  |    |  |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|--|---|----|-----|--|--|---|--|---|----|--|--|----|--|
|                                       | a) 8 b) 9 c) 10 d) 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |    |  |   |    |     |  |  |   |  |   |    |  |  |    |  |
| 14                                    | <div></div> <p>How many rectangles are there in the given figure?</p> <p>a) 8 b) 9 c) 10 d) 11</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |    |  |   |    |     |  |  |   |  |   |    |  |  |    |  |
| 15                                    | <p>Find the option that does NOT belong to the elements in the given set. Set = (Angle between diagonals of a Rhombus, Each angle of a rectangle, Each angle of a square)</p> <p>a) Angle inscribed in a semicircle b) Half of sum of opposite angles of a Cyclic Quadrilateral c) Each angle of an Equilateral Triangle d) Angle opposite to Hypotenuse in a Right - Angled Triangle</p>                                                                                                                                                                                                                                                                                                                                                                                                                                               |    |    |  |   |    |     |  |  |   |  |   |    |  |  |    |  |
| 16                                    | <p>Which shapes from the given options will NOT form a quadrilateral when any two identical shapes are joined along any one of their sides? Note: You can rotate the shapes but they cannot overlap each other</p> <p>a) Triangle b) Rhombus c) Trapezium d) Pentagon</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |    |    |  |   |    |     |  |  |   |  |   |    |  |  |    |  |
| 17                                    | <p>Two transparent sheets are shown below. Sheet A is a rectangle and Sheet B is a right-angled triangle. Rearrange the sheets so that the red points overlap exactly (without rotating or flipping the sheets). How many quadrilaterals are formed in the final figure?</p> <div><div><p>Sheet A</p></div><div><p>Sheet B</p></div></div> <p>a) 3 b) 4 c) 5 d) 6</p>                                                                                                                                                                                                                                                                                                 |    |    |  |   |    |     |  |  |   |  |   |    |  |  |    |  |
| 18                                    | <p>Paul and Sam are at different positions and start walking in opposite directions but along parallel paths. After covering the same distance, each of them turns toward the starting point of the other person and walks straight (without taking any other turns) until they reach each other's starting points. What can we say for certain about the shape formed by BOTH their paths together?</p> <p>a) The shape of the paths is a rectangle b) It has no lines of symmetry c) Opposite sides are of same length d) Both options a and c</p>                                                                                                                                                                                                                                                                                    |    |    |  |   |    |     |  |  |   |  |   |    |  |  |    |  |
| 19                                    | <p>Fill in the grid with the squares and cubes of digits 2 to 5 such that:</p> <ul style="list-style-type: none"><li>Each square/cube number appears twice</li><li>Both square and cube of the same number cannot appear in the same row/column</li><li>Same numbers do not appear diagonally</li></ul> <p>What is the maximum possible sum that can be obtained by the cells present in the configuration of Shape A (without rotation)?</p> <div><table><tr><td>64</td><td></td><td></td><td>4</td></tr><tr><td>27</td><td>125</td><td></td><td></td></tr><tr><td>8</td><td></td><td>9</td><td>25</td></tr><tr><td></td><td></td><td>16</td><td></td></tr></table><div><p>Shape A</p></div></div> <p>GRID</p> <p>a) 197 b) 161 c) 193 d) 216</p> | 64 |    |  | 4 | 27 | 125 |  |  | 8 |  | 9 | 25 |  |  | 16 |  |
| 64                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    | 4  |  |   |    |     |  |  |   |  |   |    |  |  |    |  |
| 27                                    | 125                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |    |  |   |    |     |  |  |   |  |   |    |  |  |    |  |
| 8                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 9  | 25 |  |   |    |     |  |  |   |  |   |    |  |  |    |  |
|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 16 |    |  |   |    |     |  |  |   |  |   |    |  |  |    |  |
| 20                                    | <p>Sam writes a list of natural numbers. The list has three perfect cubes and three perfect squares. If no number in the list has more than two digits, what is the MINIMUM number of distinct numbers he must have written?</p> <p>a) 3 b) 4 c) 5 d) 6</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |    |  |   |    |     |  |  |   |  |   |    |  |  |    |  |
| <b>PART B ARTIFICIAL INTELLIGENCE</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    |    |  |   |    |     |  |  |   |  |   |    |  |  |    |  |
| 21                                    | <p>. A school wants to create an AI system that can detect spam messages. What is the main problem the AI system needs to address?</p> <p>a) Writing messages      b) Sending messages      c) Detecting spam messages      d) Printing messages</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |    |    |  |   |    |     |  |  |   |  |   |    |  |  |    |  |
| 22                                    | <p>. In which stage of the AI Project Cycle is relevant information gathered to solve the identified problem?</p> <p>a) Problem Scoping      b) Data Acquisition      c) Evaluation      d) Deployment</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |    |  |   |    |     |  |  |   |  |   |    |  |  |    |  |

|    |                                                                                                                                                                                                                                                                                              |  |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|    |                                                                                                                                                                                                                                                                                              |  |
| 23 | Once an AI model has been successfully tested, which stage involves making it available for real-world use?<br>a) Data Acquisition    b) Problem Scoping    c) Deployment    d) Data Exploration                                                                                             |  |
| 24 | An AI model correctly identifies 8 out of 10 spam messages. What is its accuracy?<br>a) 50%    b) 20%    c) 80%    d) 100%                                                                                                                                                                   |  |
| 25 | How can an AI model improve its performance over time?<br>a) By thinking like a human    b) By having feelings    c) By learning from new data    d) By becoming angry                                                                                                                       |  |
| 26 | AI systems use _____ to identify useful patterns and make predictions.<br>a) Data    b) Electricity    c) Hardware    d) Instructions                                                                                                                                                        |  |
| 27 | The AI Project Cycle begins with _____ Scoping.<br>a) Data    b) Problem    c) Goal    d) Project                                                                                                                                                                                            |  |
| 28 | A shopping website wants to create an AI system that identifies fake product reviews. What problem should the developers define before starting the project?<br>a) Designing the website    b) Identifying fake product reviews    c) Increasing product prices    d) Sending advertisements |  |
| 29 | A team has collected thousands of photographs to create an AI system for identifying different types of plants. Which stage of the AI Project Cycle involves collecting these photographs?<br>a) Problem Scoping    b) Data Acquisition    c) Evaluation    d) Modelling                     |  |
| 30 | An AI system checks 200 images and correctly identifies 180 of them. What is the accuracy of the system?<br>a) 80%    b) 85%    c) 90%    d) 95%                                                                                                                                             |  |