

केन्द्रीय विद्यालय संगठन कोलकाता संभाग
KENDRIYA VIDYALAYA SANGATHAN, KOLKATA REGION
सत्रांत परीक्षा / SESSION ENDING EXAMINATION, 2025-26

कक्षा / CLASS-VIII

अधिकतम अंक/Max. Marks: 60

विषय/Sub.: विज्ञान / SCIENCE

समय/Time: 2 ½ घंटे / Hrs.

- 1. All questions are compulsory. However internal choices have been provided wherever necessary.**
- 2. The paper has four sections A, B, C & D and 28 questions.**
- 3. Section A has 14 questions of one mark each.**
- 4. Section B has 4 questions of 2 marks each.**
- 5. Section C has 5 questions of 3 marks each.**
- 6. Section D has 3 LA type and 2 CBQ of 4 marks each.**

SECTION: A

| Q. No. | Questions | Marks |
|--------|--|-------|
| 01. | What is formed when two or more elements combine chemically in a fixed ratio? (a) Mixture (b) Compound (c) Solution (d) Suspension | 1 |
| 02. | Which phase of the Moon comes after the waxing crescent? (a) Full Moon (b) New Moon (c) First Quarter (d) Waning Gibbous | 1 |
| 03. | Which celestial body's movement helps us measure a year? (a) Moon (b) Earth's rotation (c) Earth's revolution around the Sun (d) Sun's rotation | 1 |
| 04. | Why do we see different phases of the Moon? (a) Because the Moon changes shape (b) Due to Earth's shadow (c) Due to Moon's rotation (d) Due to Moon's revolution around Earth and sunlight reflection | 1 |
| 05. | What is the role of producers in a food chain? (a) They eat other animals (b) They decompose dead matter (c) They make food using sunlight (d) They store energy | 1 |
| 06. | Which of the following makes Earth suitable for life? (a) Lack of atmosphere (b) Presence of water and oxygen (c) Extreme temperatures (d) No magnetic field | 1 |
| 07. | Which layer protects Earth from harmful ultraviolet rays? (a) Troposphere (b) Ionosphere (c) Ozone layer (d) Exosphere | 1 |
| 08. | What is the Goldilocks zone? (a) A region with gold mines (b) A zone with extreme temperatures (c) A region around a star where conditions are just right for life (d) A cold region on Earth | 1 |
| 09. | What is the solute in a solution of salt water? (a) Water (b) Salt (c) Both salt and water (d) None | 1 |

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| 10. | Which of the following will dissolve fastest in water? (a) A sugar cube (b) Sugar crystals (c) Powdered sugar (d) Sugar syrup | 1 |
| 11. | A solution in which no more solute can be dissolved at a given temperature is called: (a) Dilute solution (b) Saturated solution (c) Unsaturated solution (d) Concentrated solution | 1 |
| 12. | Which lens is thicker at the centre than at the edges? (a) Concave lens (b) Convex lens (c) Plane lens (d) Cylindrical lens | 1 |
| | Question No. 13 to 14 consist of two statements – Assertion (A) and Reason (R). Answer these questions selecting the appropriate option given below: A) Both A and R are true and R is the correct explanation of A B) Both A and R are true and R is not the correct explanation of A C) A is true but R is false D) A is False but R is true | 1 |
| 13 | Assertion (A): Water is called a universal solvent. Reason (R): Water can dissolve a large number of substances compared to other solvents. | 1 |
| 14 | Assertion (A): The ozone layer is important for life on Earth. Reason (R): It absorbs harmful ultraviolet (UV) radiation from the Sun. | 1 |

SECTION B

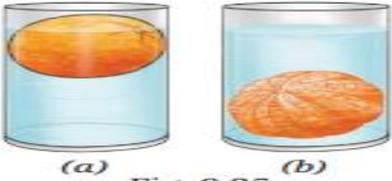
| | | |
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| 15. | Why air is considered a mixture and not a compound? | 2 |
| 16. | Write any two differences between lens and mirror OR What will be the angle of reflection if angle of incidence is 60° . Draw the diagram showing correct angles. | 2 |
| 17. | Why are decomposers important in maintaining balance in nature? | 2 |
| 18. | Mention two features of Earth that make it suitable for life. | 2 |

SECTION-C

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| 19. | Classify the following as elements, compounds, or mixtures: copper, milk, carbon dioxide, soil, hydrogen, salt. OR What are alloys? Write the composition of : i) Brass ii) Bronze | 3 |
| 20. | a) Compare the images formed by concave and convex mirrors. Mention at least two differences. b) Which lenses are called converging and diverging lenses? | 3 |
| 21. | Explain how interdependence among plants, animals, and microorganisms help to maintain ecological balance. | 3 |
| 22. | You notice tiny green plants growing in cracks on your school wall after the monsoon. Where do you think the seeds came from? What conditions helped these plants grow there? | 3 |

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| 23. | <p>a) You have a bottle with a volume of 2 litre. You pour 500 mL of water into it. How much more water can the bottle hold?</p> <p>b) An object has a mass of 400 g and a volume of 40 cm³. What is its density?</p> | 3 |
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SECTION-D

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| 24. | <div style="text-align: center;">  <p>(a) Fig. 9.25 (b)</p> </div> <p>a) Analyse Fig. 9.25a and 9.25b. Why does the unpeeled orange float, while the peeled one sinks? Explain.</p> <p>b) Reema has a piece of modelling clay that weighs 120 g. She first moulds it into a compact cube that has a volume of 60 cm³. Later, she flattens it into a thin sheet. Predict what will happen to its density.</p> <p style="text-align: center;">OR</p> <p>Define the following :</p> <p>(a) Dilute solution (b) Saturated solution (c) Unsaturated solution (d) Concentrated solution (e) Mass and Volume</p> | 5 |
| 25. | <p>a) Is it possible for a substance to be classified as both an element and a compound? Explain why or why not.</p> <p>b) How would our daily lives be changed if water were not a compound but a mixture of hydrogen and oxygen?</p> | 5 |
| 26. | <p>What is artificial satellite? What is the purpose of launching artificial satellites? Name any two artificial satellites.</p> | 5 |
| 27. | <p>In a village ecosystem, cows graze on grass, humans use cow milk, and dung is used to produce biogas. The leftover slurry from biogas plants is returned to the soil as manure. Birds feed on insects in the fields, and trees provide shade and oxygen.</p> | |
| 27.(i) | <p>How does grass act as the primary producer in this ecosystem?</p> | 1 |
| 27.(ii) | <p>What is the role of cows in maintaining harmony in this cycle?</p> | 1 |
| 27.(iii) | <p>Why biogas production is considered an example of sustainable use of resources?</p> | 1 |

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| 27.(iv) | How do birds help farmers indirectly in this ecosystem? | 1 |
| 28 | Dr. Meera is a dentist. While examining a patient's tooth cavity, she uses a small mirror attached to a handle. The mirror helps her see the tooth clearly even though it is inside the mouth. She notices that when the tooth is close to the mirror, the image appears larger and upright. However, when she accidentally moves the mirror farther away, the image changes its nature. | |
| 28.(i) | Which type of mirror is used by the dentist? | 1 |
| 28.(ii) | Why a convex mirror would not be suitable for dental examination? | 1 |
| 28.(iii) | What is the nature of the image formed when the tooth is placed close to the mirror? | 1 |
| 28.(iv) | State one other practical use of this type of mirror outside dentistry. | 1 |
