

**SECOND TERM EVALUATION 2024-25**

**BASIC SCIENCE MODEL QUESTION PAPER 1**

**Standard: V**

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**Instructions:**

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- You have 15 minutes to read the questions before answering.
  - Attempt any 6 activities from the 8 given.
  - Answer all sub-activities in the chosen questions.
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Activity 1

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1. Explain the steps involved in purifying river water for household use.
  2. If 1 liter of water is used for cooking and 2.5 liters for drinking, calculate the total water consumption for a family of four in one day.
  3. Suggest three ways to reduce water wastage at home.
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Activity 2

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1. Why is water considered the "universal solvent"? Provide two examples from daily life to support your answer.
  2. Conduct a thought experiment: Predict whether sugar, camphor, and coconut oil will dissolve in water. Write your guesses and explain why.
  3. Discuss the importance of testing drinking water quality and list three indicators of unsafe water.
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Activity 3

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1. Explain the process of seed germination and the role of water, air, and sunlight in it.
  2. List two differences between monocot and dicot plants based on root systems and venation.
  3. Write an example of a plant that grows without seeds and explain its propagation method.
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Activity 4

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1. How does water scarcity impact agriculture and daily life? Suggest two solutions to tackle water scarcity.
  2. Write a short essay on the importance of rainwater harvesting and suggest methods to implement it in your locality.
  3. Discuss the environmental impact of overusing groundwater resources.
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Activity 5

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1. What is seed dispersal? Explain two ways animals contribute to seed dispersal with examples.
  2. Coconut seeds float on water to reach faraway places. Explain how this adaptation helps in seed dispersal.
  3. Write about one plant whose seeds burst open to scatter and the importance of this process.
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Activity 6

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1. Why do plants need water? Discuss three roles of water in plant growth and survival.
  2. Explain the relationship between leaf venation and the type of root system in plants. Provide examples.
  3. What are the benefits of using hydroponics to grow plants in urban areas?
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Activity 7

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1. How does the moon shine even though it is not a source of light?
  2. List three differences between stars and planets.
  3. Write about the role of artificial satellites in modern communication and navigation systems.
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Activity 8

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1. Name the celestial bodies in the solar system and explain the function of an orbit.
  2. How do artificial satellites help in weather forecasting? Provide examples.
  3. Write a note on India's Chandrayaan missions and their significance in space exploration.
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