

BHARTIYA SHIKSHA BOARD
Model Paper – Half Yearly
Science - Class 6
Session 2026-27

Time: 3 Hours

Max Marks: 80

GENERAL INSTRUCTIONS:

- Read the questions carefully.
 - Please check that this question paper contains 6 printed pages.
 - 10 minutes of extra time have been allotted to read this question paper. During this time, students will not start writing the answers.
 - This question paper contains five sections: Section A, Section B, Section C, Section D and Section E.
 - Attempting all the questions is compulsory.
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SECTION A

Choose the correct option (only one option is correct) 1 Mark each

1. Which of the following organisms breathe through their skin?
 - a. Frogs
 - b. Fish
 - c. Plants
 - d. Mice
2. Which of the following is the basic unit of life?
 - a. Nucleus
 - b. Cell
 - c. Muscle
 - d. Nerve
3. Which of the following is a climber?
 - a. Watermelon plant
 - b. Strawberry plant
 - c. Orange plant
 - d. Grape plant
4. A cactus plant is a _____
 - a. Mesophyte
 - b. Xerophyte
 - c. Epiphyte
 - d. Hydrophyte

5. Which of the following help in swimming?
 - a. Wings
 - b. Claws
 - c. Webbed feet
 - d. Gills
6. Which of the following property is responsible for the extensive use of copper in making electrical wires?
 - a. Hardness
 - b. Lustre
 - c. Thermal conduction
 - d. Electrical conduction
7. The temperature near the centre of the Earth is approximately similar to the temperature of the surface of the -----
 - a. Sun
 - b. Moon
 - c. Mars
 - d. Jupiter
8. Shape of the clouds is described by which of the following term?
 - a. Nimbus
 - b. Cumulus
 - c. Alto
 - d. Cirro
9. Which among the following materials is miscible with water?
 - a. Glycerine
 - b. Chalk powder
 - c. Oil
 - d. Sand

Instructions for Questions Based on Assertion and Reason

Question no 10 and 11 consists of two statements—**Assertion (A)** and **Reason (R)**. Read both statements carefully and choose the most appropriate answer from the options given.

Select:

- a. If both Assertion and Reason are true, and Reason is the correct explanation of the Assertion.
- b. If both Assertion and Reason are true, but Reason is **not** the correct explanation of the Assertion.
- c. If Assertion is true, but Reason is false.
- d. If Assertion is false, but Reason is true.
- e. Both Assertion and Reason are false

10. Assertion: Ostrich is a bipedal organism

Reason: Ostrich moves on two legs

- a. A and R both are true, and R is the correct explanation of A
- b. A and R both are true, but R is not the correct explanation of A
- c. A is true, but R is false
- d. A is false, but R is true
- e. Both A and R are false

11. Assertion: Metals are natural material and are biodegradable.

Reason: They can be degraded by bacteria.

- a. A and R both are true, and R is the correct explanation of A
- b. A and R both are true, but R is not the correct explanation of A
- c. A is true, but R is false
- d. A is false, but R is true
- e. Both A and R are false

Choose the correct option (more than one option is correct) 1 Mark each

12. Sometimes pure metals are not used in making objects. They may be made of material, which is a combination of metal and metal commonly called alloy. Which among the following are alloy.

- a. Bronze
- b. Copper
- c. Brass
- d. Zinc

13. Which of the following materials show thermal conductivity?

- a. Stainless steel
- b. Copper
- c. Plastic
- d. Iron

14. A scientific fact can be verified by -----

- a. Estimation
- b. Measurement
- c. Observation
- d. Experimentation

15. Which of the following statements about changes on the Earth's surface are correct?

- a. Mountain rivers flow faster because of steep slopes.
- b. Rivers can both wear away rocks and deposit sediments.
- c. Wind and glaciers are agents that change the Earth's surface.
- d. Landforms remain unchanged over time.

16. Which of the following is/are part of all the cells?
- Cell membrane
 - Cytoplasm
 - Nucleus
 - Cell wall

17. Which of the following is a part of leaves?
- Petiole
 - Internode
 - Vein
 - Stamen

Fill in the blanks (1 Mark each)

18. _____ is prepared by heating sand and some other materials up to a very high temperature.
19. When the demand for something exceeds its availability, it is called _____
20. _____ is caused by the movements of tectonic plates.

SECTION B (2 Marks each)

- Justify the statement, 'plants are living organisms.'
- Give one difference between tap root and fibrous root with one example each.
- Differentiate between natural and man-made materials with one example each.
- A shopkeeper wants to measure the length of a roll of cloth.
 - Which measuring instrument should he use?
 - Why is it better than a 15 cm ruler?
- Suggest two actions students can take to reduce water wastage in school.
- Give reason for the following
 - Why aluminium is extensively used in making cooking utensils
 - Why Gold and silver are commonly used for making jewellery.

SECTION C (3 Marks each)

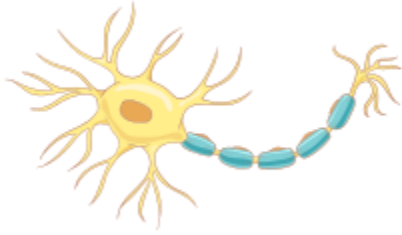
- Classify plants on the basis of season with one example each.
- What is the difference between the locomotion of a lizard, a snake and an earthworm?
- Find the odd one out giving one reason in support of your answer.:
 - Football, Shoes, Leather, Bags

- b. Cotton, Wool, Silk, Nylon
 - c. Copper, Tin, Bronze, Iron
4. Answer the following:
- a. Mention any two properties used to classify materials.
 - b. Differentiate between miscible and immiscible liquids.
5. Why are the handles of cooking utensils made of wood or plastic?
6. During an earthquake, what three safety measures should people follow?
7. Mount Everest and the Mariana Trench are both measured from sea level.
- a. Why is sea level used as the common reference?
 - b. What problem would arise if countries used different reference points?
 - c. Mention one field where accurate elevation measurements are important.
8. Answer the following:
- a. Why can humans not survive in the upper layers of the troposphere?
 - b. Why doesn't water fall continuously from atmospheric rivers?

SECTION D (4 Marks each)

1. One day, Gaurav went to the zoo and saw a penguin. He noticed that it had a funny walking style on land but when it went inside the water, it could swim fast and smoothly.
- a. What type of body does the penguin have that allows it to swim smoothly? (1)
 - b. Can a penguin fly? What does the penguin use its wings for? (2)
 - c. What type of feet does the penguin have? (1)
2. A school wants to buy materials for making classroom furniture. The options available are wood, glass, metal and plastic.
- a. Which material would be more suitable for making a strong table? (1)
 - b. Which material would be suitable for a classroom window? (1)
 - c. Why would glass not be a good choice for making the table? (1)
 - d. Name one property that should be considered while selecting a material for furniture. (1)
3. After a severe cyclone, scientists used satellites to study the affected area.
- a. What do satellites help scientists to observe from space? (1)
 - b. How can satellite information help people during a cyclone? (1)
 - c. Give one other use of satellites. (1)
 - d. Why are satellite images better than ground observations? (1)

SECTION E (5 Marks each)



1.
 - a. What cell is depicted in the above image? (1)
 - b. Label the nucleus, cytoplasm and cell membrane in the above cell. (2)
 - c. Explain how plants breathe (2)
2. Water in rivers and lakes is becoming polluted.
 - a. Explain two ways humans pollute water bodies.
 - b. Predict two consequences.
 - c. Suggest one action students can take to protect water resources.
3. Anaya is making a small model house. She uses cardboard for the walls, clear plastic for the windows, wood for the door and rubber for some flexible parts.
 - a. Why is clear plastic suitable for the windows? (1)
 - b. Why is cardboard suitable for the walls? (1)
 - c. Which material in the model is flexible? (1)
 - d. Name one property of wood that makes it suitable for a door. (1)
 - e. What does this activity tell us about the selection of materials? (1)