



INDIAN SCHOOL AL WADI AL KABIR

POST MIDTERM EXAMINATION (2023-24)

Sub: **SCIENCE**

SET-I

Class: VI

Max. Marks: 30

Date: 26.11.2023

Time: 1 hour

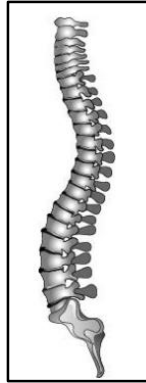
General Instructions:

- i. All questions are compulsory. Marks are indicated against each section.
- ii. The question paper comprises 4 **pages** and 15 questions in 5 sections A, B, C, D and E.
- iii. Q 1 to Q 4 in **Section A** -MCQ carries ONE mark each. Write the correct answer along with the option only in the answer script.
- iv. Q 5 to Q 7 in **Section A** -Assertion and Reason carry ONE mark each.
- v. Q 8 to Q 10 in **Section B** are short Answer Type Questions and carry TWO marks each.
- vi. Q 11 TO Q 13 in **Section C** are Short Answer Type Questions and carry THREE marks each.
- vii. Q 14 in **Section D** is a Long Answer Type Question and carries FIVE marks.
- viii. Q 15 in **Section E** is a Case study/paragraph Question and carries THREE marks.
- ix. Write the same question number as given in the question paper.
- x. Whitener should not be used in the answer script.
- xi. Diagrams should be drawn using a pencil.

SECTION A (1X7=7)

1. Trees use a part of water absorbed by their roots to prepare their food, the rest of it is evaporated by the process called transpiration. Which argument correctly describes the role of trees in water cycle?
 - a) They increase the heat required for evaporation.
 - b) They speed up the process of condensation.
 - c) They add water to the atmosphere.
 - d) They reduce the seepage of rainwater into the ground.
2. An ice cube melts into water and the change is considered as reversible change. Which factor would reverse the change?
 - a) Increase in weight of the water.
 - b) Decrease in weight of the water.
 - c) Increase in temperature of water.
 - d) Decrease in temperature of water.

3. Backbone extends through most of the body. The image shows the human backbone:



How does the backbone differ from the thigh bone?

- a) Backbone is made of many small bones, while the femur is a long bone.
 - b) Backbone is a long bone, while the femur is made of many small bones.
 - c) Backbone is the smallest bone of the body, while the femur is the longest bone.
 - d) Backbone is the longest bone of the body, while the femur is the smallest bone.
4. A student requires two magnetic substances for a science project. He could find only one magnet and thus he decided to make another magnet from it. Which of these processes could be followed to create an additional magnet?
- a) Placing a piece of cardboard above the magnet.
 - b) Placing a nail close to the magnet without touching it.
 - c) Take a piece of iron nail and rub it repeatedly on the magnet.
 - d) Wrapping a piece of plastic around the magnet for a few hours.

For the following questions, two statements are given- one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (i), (ii), (iii), and (iv) as given below.

- i) Both A and R are true and R is the correct explanation of the assertion.*
 - ii) Both A and R are true but R is not the correct explanation of the assertion.*
 - iii) A is true but R is false.*
 - iv) A is false but R is true.*
5. **Assertion (A):** The burning of paper is a physical change.
Reason (R): The products formed on burning paper cannot be converted back to paper.
6. **Assertion (A):** Snakes do not have a backbone.
Reason (R): Snakes slither on the ground by looping sideways.

7. **Assertion (A):** A Ring-shaped magnet does not have a north and south pole.

Reason (R): A magnetite is a natural magnet.

SECTION B (2X3=6)

8. Describe the movement in an earthworm.

9. Identify the properties of magnet shown in the following figures:

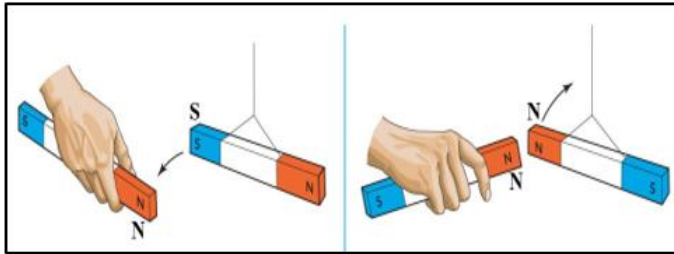


Fig. (i)

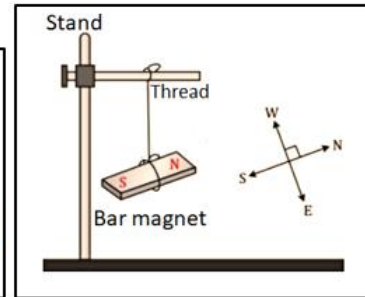


Fig. (ii)

10. a) List any **two uses** of magnets.

b) Draw a neat diagram of a U- shaped magnet. Label the parts where magnetic force is found to be maximum.

SECTION C (3X3=9)

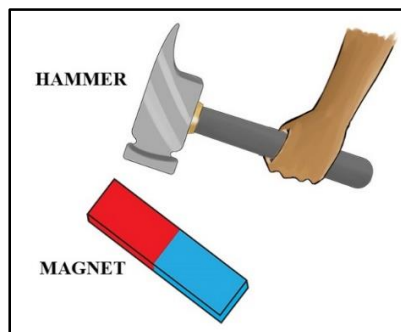
11. a) When water is mixed with Plaster of Paris (POP) and allowed to dry, it sets into a hard mass. State whether the change is reversible or irreversible. Justify your answer.

b) Explain how a metal rim is fixed around the wooden wheel of a cart.

12. a) State the difference between reversible and irreversible changes with examples.

b) Metallic electric wires sag during summers. Give reason.

13. a) Refer to the picture given below:



Why should we avoid doing this?

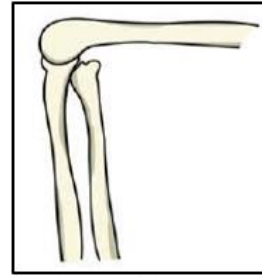
b) Write the difference between magnetic and non-magnetic substances with suitable examples.

SECTION D (5X1=5)

14. a) How are X-rays helpful in the field of medicine?
b) How do muscles help in movement? Explain.
c) Identify and differentiate (one point each) between the joints shown in the figure.



A



B

SECTION E (1X3=3)

Read the following passage / case study and answer the questions given below:

15. Water is essential for the existence of life. Without water, there would be no life on earth. Just like other living organisms, we also need to consume water to survive.

The main functions of water for living organisms are: Water is essential for the germination of seeds, growth of plants and photosynthesis, Water is used for our basic requirements like bathing, washing, drinking, cooking etc. What would happen if it does not rain in a region for a year or more? The soil continues to lose water by evaporation and transpiration. Since it is not being brought back by rain, the soil becomes dry. The level of water in ponds and wells of the region goes down and some of them may even dry up. The ground water may also become scarce. This may lead to drought.

With growing population, modernization and industrial growth, the demand for water is increasing every day. As responsible citizens, we must understand the need to conserve this natural resource. We can do so by taking a few simple actions: Turn off taps while brushing teeth, mop the floor instead of washing, take shorter showers say 5 minutes or less, leaking taps or water pipes should be repaired immediately.

- i) What happens to the soil and water bodies if it does not rain for a long period?
ii) Mention the main functions of water for living organisms.
iii) Write some simple steps to conserve water.