

SAMPLE PAPER
CLASS VI
SCIENCE

Time: 3 Hours

Max. Marks: 80

General Instructions:

- (i) The question paper comprises of two sections, A and B. You are required to attempt both the sections.
 - (ii) All questions are compulsory.
 - (iii) Question numbers 1 and 2 in Section A are one mark questions. They are to be answered in one word or in one sentence.
 - (iv) Question numbers 3 to 5 in Section A are two marks questions. These are to be answered in 30 words each.
 - (v) Question numbers 6 to 15 in Section A are three marks questions. These are to be answered in about 50 words each.
 - (vi) Question numbers 16 to 21 in Section A are 5 marks questions. These are to be answered in 70 words each.
 - (vii) There is an internal choice in three questions of five marks each.
 - (viii) Question numbers 22 to 27 in Section B are activity based questions. Each question is a two marks question. These are to be answered in brief.
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SECTION A

- 1. Name an organism that has exoskeleton. (1)
- 2. Which device is used to break the flow of current in a circuit? Name an electrical gadget that has this device built in it. (1)
- 3. Give an example of object showing more than one type of motion. Also mention the motions it displays. (2)
- 4. Write two precautions that should be taken while handling a magnet. (2)
- 5. “Water, water everywhere, nor any drop to drink”. (2)
 - (a) Justify the plight of the sailors on a ship lost in ocean.
 - (b) Name two sources from where we get water in our homes.
- 6. Mention one function of the following parts of the plant (3)
 - (a) Root
 - (b) Leaves
 - (c) Stem
- 7. i) Which measuring device is used by tailors to take measurement of body parts? (3)
Can they replace this device with a metre rod? Justify your answer.

- ii)** The distance between Sohan's home and his school is 3250m. Express this distance into km
- 8.** Write any two differences between reticulate and parallel venation. Give an example of each type. **(3)**
- 9.** i) To clean his spectacles, Ramesh would often breathe out on glasses to make them clean. Justify his action. **(3)**
ii) During winters why do we see more fog in areas where there are lots of trees?
- 10.** Write any three activities that are possible due to the presence of air. **(3)**
- 11.** Mona went to a farm and observed three different kinds of plants. Plant A is short and has soft green stems, plant B is tall and has hard and thick stem. Plant C has developed branches near the base of the stem which is hard but not thick. **(3)**
(i) Classify A, B and C into different types of plants.
(ii) Give one example of each type of plant A, B and C.
- 12.** a) "A fish dies when taken out of water whereas a wall lizard will die if kept under water." Give the term used to describe such abilities that allow fish and lizard to survive in their respective habitats and explain it briefly. **(3)**
b) Explain how a frog can live both in water and on land.
c) Which type of body shape is mostly possessed by aerial and aquatic animals? How is this type of body shape useful for these organisms?
- 13.** Mention the type of motion for the following: **(3)**
i) Plucking of strings of a guitar
ii) Marching of the soldiers.
iii) Ball thrown at an angle
iv) Movement of an insect
v) Hands of a clock
vi) Motion of a bicycle while riding
- 14.** Give reasons for the following statements. **(3)**
i) The bulb would not glow if we use eraser instead of safety pin to complete the circuit.
ii) Lump of cotton wool shrinks in water.
iii) Pace or a footstep cannot be used as a standard unit of length.

15. (i) What is meant by leaf venation? (1+1+1=3)
(ii) Identify the type of leaf venation found in the diagram A and B given below.



- iii) Give one example of a plant for each type A and B.
16. i) Draw diagrams of any two movable joints in a human body and name them. (2+2+1=5)
ii) Explain why our wrist is more flexible than skull.
iii) Give two examples of vertebrates.
17. Give one word for the following. (1x5=5)
i) The natural surroundings where an organism lives.
ii) The process of inducing magnetism in a piece of soft iron.
iii) The device which is used to break/ complete the circuit.
iv) The part of the plant that anchors the plant to the ground.
v) A framework of bones to give shape to our body.
18. a) Draw diagrams to show an open circuit and closed circuit. (2+3=5)
b) Explain the importance of conductor and insulator in a circuit. Give a suitable example of each.
19. a) Explain any three processes involved in the water cycle. (3+2=5)
b) 'Water is Precious.' Justify the statement by mentioning two suitable ways to conserve water.

OR

- a) What is ground water? Name a source of water which is fed by ground water. (2+2+1=5)
b) Amount of heat affects rate of evaporation. Give two examples from daily life to justify your answer.
c) How does concrete land affect the availability of underground water?
20. a) State one difference between a magnetic and non-magnetic materials with the help of an example of each. (2+3=5)
b) Write any three properties of a magnet.

OR

(2+3=5)

- a)i) State the principle on which the magnetic compass works.
- ii) Give two uses of magnetic compass.
- b) Suresh was trying to magnetize an iron strip by randomly rubbing a magnet on an iron strip but could not do so. Suggest the correct stepwise method that would help him magnetize the iron strip.

21. a) Explain acclimatization with the help of an appropriate example. **(2+3=5)**
b) How is cactus adapted to survive in a desert? Write any three points.

OR

- a) Why do the mountain plants have pointed and needle like leaves?
- b) Mention the body features that enables a cockroach to walk and fly respectively **(1+2+2=5)**
- c) Write adaptive features :
 - i) that help mountain goat to move on rocky slopes.
 - ii) that enable a snow leopard to walk on snow.

SECTION-B

22. Neeta placed few gram seeds on wet cotton and kept sprinkling water every day. **(2)**
a) What will be Neeta's observation after few days?
b) Can the same observation be seen if dry cotton was used? If No, then justify your answer
23. Rahul took a medium size potted plant that has been growing in the sun and enclosed a leafy branch of the plant in a polythene bag. He tied up the mouth of another empty polythene bag and kept it also in the sun. **(2)**
a. Which process is shown in the above experiment?
b. What Rahul will observe after few hours on the inner surface of the bags?
24. Neha took two small candles and fixed them in two shallow containers A and B **(2)** having some water. Then she lighted both the candles and covered the container A with small glass and container B with large glass and waited for some time.
a) Which candle will burn for longer time?
b) What change will she observe in the level of water?
25. Sohan and his friends took a bar magnet and an iron rod. He placed the magnet **(2)** on the table. He touched it with the iron bar at various points along the length. He felt maximum attraction at the ends.
(a) What is the term given to the ends of magnet?
(b) Why was attraction maximum at the ends of the magnet?
(c) What will happen to the ends of a magnet if it is broken into two pieces?

- 26.** Rhea kept some water in a beaker for boiling. She observed tiny bubbles had appeared before the water boiled. She immediately stored boiled water in an airtight bottle. **(2)**
- (a)** What conclusion do you draw from the appearance of tiny bubbles?
(b) Will the bubbles appear on reheating boiled water? Give reason to support your answer.
- 27.** Mehul took a glass and filled it with water. then he added few ice cubes into the glass and waited for few minutes. **(2)**
- a)** What change will Mehul observe on the outer surface of glass?
b) Name the process which is responsible for this change.