



**ST. MARGARET SR. SEC. SCHOOL**  
D-Block, Prashant Vihar, Rohini, Delhi - 110085  
**Sample Paper 2023-24**  
**SCIENCE**

**Time: 2 Hr 30 Min**

**CLASS VI**

**M.M: 60**

**GENERAL INSTRUCTIONS:**

- All questions are compulsory.
- Section A carries 1 mark each.
- Section B carries 2 marks each.
- Section C carries 3 marks each.
- Section D carries 5 marks each.

**SECTION -A**

**Select the correct option (Q1-16) (MCQ)**

Q1. Which of the following is the correct match between the characteristics of stem and the category of plant?

- (a) Weak stem which cannot stand upright: Creeper
- (b) Green tender stem: Shrub
- (c) Thick, hard stem with branching near the base: Tree
- (d) Thick, hard stem with branches high on the plant: Herb

Q2. Choose the odd one out from below with respect to reproduction.

- (a) Eggs of hen (b) Seeds of plants (c) Buds of potato (d) Roots of mango tree

Q3. Which of the following does not express a time interval?

- (a) A day (b) A second (c) A school period (d) Time of the first bell in the school

Q4. How many muscles work together to move a bone?

- (a) One (b) Two (c) Three (d) Four

Q5. Following are some features of plants.

- (i) They lose a lot of water through transpiration.
- (ii) Their leaves are always broad and flat.
- (iii) They lose very little water through transpiration.
- (iv) Their roots grow very deep into the soil.

Which of the combination of above features are typical of desert plants?

- (a) (i) and (ii) (b) (ii) and (iv) (c) (ii) and (iii) (d) (iii) and (iv)

Q6. Which of the following is/are not always necessary to observe a shadow?

- (a) Sun (b) Screen (c) Source of light (d) Opaque object

Q7. Underwater divers wear fin-like flippers on their feet to

- (a) swim easily in water (c) walk on water surface
- (b) look like a fish (d) walk over the bottom of the sea(sea bed).

Q8. Which of the following cannot be called a habitat?

- (a) A desert with camels
- (b) A pond with fishes
- (c) A jungle with wild animals
- (d) Cultivated land with grazing cattle

Q9. Two students while sitting across a table looked down on to its top surface. They noticed that they could see their own and each other's image. The table top is likely to be made of  
(a) unpolished wood (b) red stone (c) glass sheet (d) wood top covered with cloth

Q10. Which of the following is not a magnetic material?  
(a) cobalt (b) nickel (c) iron (d) glass

Q11. Identify the object which is in motion  
(a) clock (b) second's hand of a clock (C) road (d) ball on a table

Q12. Which gas is a supporter of combustion?  
(a) Nitrogen (b) carbon dioxide (c) smoke (d) oxygen

Q13. Metal cap of an electric current flows is called  
(a) an insulator (b) switch (c) negative terminal (d) Positive terminal

Q14. The method of separation used to separate stones from rice is  
(a) handpicking (b) threshing (c) winnowing (d) all of these

Q15. The path along which electric current flows is called  
(a) switch (b) electric cell (c) electric circuit (d) electric torch

Q16. Butter is separated from milk by  
(a) sedimentation (b) filtration (c) churning (d) decantation

**Q17. Read the following passage and answer the following questions.**

A carpenter was sawing the wood and suddenly his packet of iron nails and screws fell into the heap of saw dust. He quickly detached two bar shaped objects X and Y from the side of fridge and moved them around the saw dust heap. He got his nails and screws without wasting much time. After removing the iron nails, he tried to stick X and Y with each other but felt a force of repulsion and they did not stick. When he placed them on the fridge, they both stuck to the fridge.

1. Name the objects X and Y
2. Where did the iron nails get clustered on objects X and Y?
3. Why did X and Y not stick to each other and showed repulsion?
4. Why did X and Y stick to the fridge?

**Q18. For question numbers 1 to 4 two statements are given- one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) & (d).**

**(a) Both (A) and (R) are true and (R) is the correct explanation of the assertion.**

**(b) Both (A) and (R) are true and (R) is not the correct explanation of the assertion.**

**(c) (A) is true but (R) is false.**

**(d) (A) is false but (R) is true.**

1. Assertion: The  $\text{CO}_2$  and oxygen are involved in respiration.  
Reason : The plants and animals consume oxygen for respiration and produce carbon dioxide

2. Assertion: Living things produce more of their own kind through reproduction

Reason: Only animals reproduce their own kind plants can not reproduce

3. Assertion: For the measurements unit international system of units are the system or method used.

Reason: The kg is the SI unit of length.

4. Assertion: Human body is a bad conductor of electricity.

Reason: The materials which allow electric current to passthrough them are conductors of electricity.

Q19. Define Shadow

Q20. Why does a fish have slippery scales on its body?

Q21. What is the importance of weather cock?

Q22. State any two important functions of skeleton.

Q23. What are the reasons that the bulb will not glow?

Q24. In which case the bulb will not glow?

Q25. State any one difference between node and internode.

Q26. How temperature affects the solubility?

Q27. Draw a diagram of open circuit.

Q28. What is difference between motion of ceiling fan and motion of a pendulum?

Q29. Explain why mountaineers carry oxygen cylinders with them?

Q30. How does the sky become clear after rain?

### SECTION -B

Q31. Why do we need standard unit for measurement?

Q32. Define venation. Differentiate between reticulate and parallel venation. 1+1

Q33. A. Identify and name the type of joint.

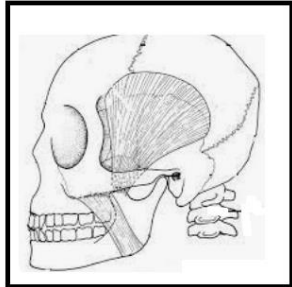


Fig -1

B. Which type of movement occurs at joint shown in fig-1

Q34. Differentiate between biotic and abiotic components of an environment.

Q35. Define opaque object. Give two examples

### SECTION -C

Q36. A. A car uses petrol as fuel, gives out carbon monoxide gas and is able to move , yet it is considered to be non-living. Why?

B. Differentiate between response and stimulus. Give example also. 1+2

Q37. Paheli kept some water in a beaker for heating. She observed that tiny bubbles appeared before the water started to boil. She boiled the water for about 5 minutes and filled it in a bottle up to the brim and kept the bottle air tight till it cooled down to room temperature.

(a) Why did the tiny bubbles appeared?

(b) Do you think tiny bubbles will appear on heating the water taken out from the bottle? Justify your

Q38. Describe the steps involved in magnetising an iron strip with the help of a magnet. 3

**SECTION -D**

Q39. A. What do you mean by acclimatisation?

B. Write the adaptive features of

(i) Yak

(ii) Snake in desert

(iii) Mountain goat

(iv) Whale

1+4