

M.M -60
INSTRUCTIONS:

TIME – 150 MIN

All questions are compulsory.

SECTION A: MULTIPLE CHOICE QUESTIONS (1 MARK EACH)

1. Which is an example of a shrub?
(a) Spinach (b) Mango tree (c) Tomato plant (d) Lemon
2. . Which of the following type of plants has thick, hard and woody stem?
(a) Tree (b) Shrub (c) Herb (d) All of these
3. Parallel venation is not found in
(a) sugarcane (b) peepal (c) maize (d) wheat
4. Which of the following is a primary source of energy for the body?
(a) Proteins (b) Fats (c) Carbohydrates (d) Vitamins
5. Which region of India is known for dishes like dosa and idli?
(a) Punjab (b) West Bengal (c) Maharashtra (d) Tamil Nadu
6. Which of the following foods is rich in proteins?
(a) Apples (b) Almonds (c) Milk (d) Rice.
7. Which of the following materials is known as a magnetic material?
(a) Plastic (b) Wood (c) Iron (d) Rubber
8. What will happen if you place two magnets with their North Poles facing each other?
(a) They will attract each other (b) They will repel each other
(c) They will become neutral (d) They will align themselves in a straight line
9. What is the primary goal of science?
(a) To memorize facts and figures
(b) To understand the world we live in and uncover the secrets of the universe
(c) To perform experiments without any purpose
(d) To follow instructions without questioning
10. What is the most important trait needed to explore and understand the world through science?
(a) Memorization (b) Discipline (c) Curiosity (d) Obedience

SECTION B: SHORT ANSWER TYPE QUESTIONS (2 MARKS EACH)

11. How does Science help us understand the world?

12. With the help of diagrams, tabulate the differences between a shrub and a tree, based on the properties of the stem.
13. What are terrestrial habitats? Give examples
14. What are the significant differences between traditional and modern culinary practices?
15. What are magnetic materials? Give two examples.
16. What happens when you bring the north pole of a bar magnet A near the south pole of an another bar magnet B.?
17. Explain the importance of food for living organisms.

SECTION C: LONG ANSWER TYPE QUESTIONS (3 MARKS EACH)

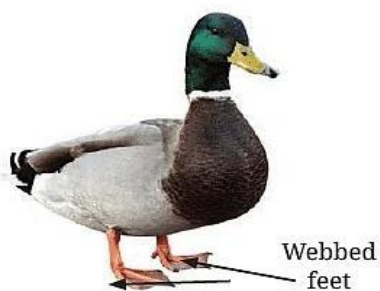
18. Define scientific method. What are the steps need to be followed to solve a problem?
19. As the population grows and people want more comfortable lives, forests are being cut down to meet various needs. How can this affect our surroundings? How do you think we can address this challenge?
20. Column I shows different positions in which one pole of a magnet is placed near that of the other. Column II indicates the resulting interaction between them for different situations. Fill in the blanks.

COLUMN I	COLUMN II
N-N
N-.....	ATTRACTION
S-N

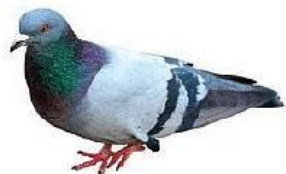
21. How to keep magnets safe?
22. Group the following animals into two groups based on any feature other than those discussed in the chapter— cow, cockroach, pigeon, bat, tortoise, whale, fish; grasshopper, lizard.
23. Name any 2 vitamins, their sources and deficiency diseases caused by them.

SECTION D: VERY LONG ANSWER TYPE QUESTIONS (5 MARKS EACH)

24. Observe the labelled part of a duck in the picture given below. What differences do you observe in the feet of the duck compared to the other birds? Which activity would the duck be able to perform using this part?.



(a) Duck



(b) Pigeon

25. Medu does not eat vegetables but enjoys biscuits, noodles and white bread. He often has stomach ache and constipation. What changes should he make in his diet to get rid of these problems? Explain your answer.

SECTION E: CASE BASED TYPE QUESTIONS (4 MARKS)

26. Emma is a student who often gets colds and has trouble healing from minor cuts. Her teacher advises her to include more fruits like oranges and strawberries in her diet. Emma wonders how these fruits help her health.

I. Which vitamin is abundant in oranges and strawberries and helps in boosting the immune system?

- a) Vitamin A
- b) Vitamin B12
- c) Vitamin C
- d) Vitamin D

II. What role does Vitamin C play in the body?

- a) Helps in bone formation
- b) Aids in wound healing and boosts immunity
- c) Maintains healthy skin and vision
- d) Regulates blood clotting

III. If Emma wants to increase her Vitamin C intake, which of the following should she eat more of?

- a) Carrots
- b) Spinach
- c) Oranges
- d) Milk

IV. What could be a sign of Vitamin C deficiency in Emma?

- a) Strong bones
- b) Good vision
- c) Frequent colds and slow wound healing
- d) Normal blood clotting

27. Lina is playing with her new set of toy magnets. She notices that when she brings the north pole of one magnet close to the north pole of another magnet, they push away from each other. When she tries to bring the north pole close to the south pole of the second magnet, they pull towards each other.

I. What happens when Lina brings the north pole of one magnet close to the north pole of another magnet?

- a) They attract each other
- b) They repel each other
- c) They merge into one magnet
- d) They stay unaffected

II. What will happen if Lina brings the south pole of one magnet close to the north pole of another magnet?

- a) They repel each other
- b) They attract each other
- c) They remain unaffected
- d) They become neutral

III. If Lina wanted to push the magnets away from each other, which poles should she use?

- a) North-North
- b) North-South
- c) South-South
- d) South-North

IV. When Lina experiences repulsion between two magnets, which poles are interacting?

- a) North and South
- b) North and North
- c) South and South
- d) Both North and South poles