

SUBJECT: SCIENCE
CLASS : VII

MAX. MARKS : 80
DURATION : 2½ HRS

General Instructions:

- (i). All questions are compulsory.
 - (ii). This question paper contains **30** questions divided into four Sections A, B, C and D.
 - (iii). **Section A** comprises 8 Fill in the Blanks Questions, 8 Multiple Choice Questions, 8 Very Short answer type Questions, each of **1 mark**. **Section B** comprises of 11 questions of **2 marks** each. **Section C** comprises of 8 questions of **3 marks** each and **Section D** comprises of 2 questions of **5 marks** each.
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SECTION – A (1 mark each)

MULTIPLE CHOICE QUESTIONS. (8 marks)

1. Small aerating pores present in the leaf are known as
(a) chlorophyll (b) lentil (c) stomata (d) vessels

 2. The type of nutrition in which wholesome organic food is taken in by an organism is called
(a) autotrophic nutrition (b) saprophytic nutrition
(c) holozoic nutrition (d) parasitic nutrition

 3. Breathing is a
(a) chemical process (b) physical process
(c) biological process (d) biochemical process

 4. Which chamber of heart receives oxygenated blood from lungs?
(a) Left atrium (b) Left ventricle (c) Right atrium (d) Right ventricle

 5. In flowering plants, male gamete is formed inside _____.
(a) anther (b) ovary (c) ovule (d) pistil

 6. Convert the speed of car in 72km/h into m/s.
(a) 20 m/s (b) 25 m/s (c) 30 m/s (d) 40 m/s

 7. Electromagnet is based on
(a) heating effect of electric current. (b) magnetic effect of electric current.
(c) chemical effect of electric current. (d) electro-chemical effect of electric current.
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8. Mirror used as a shaving mirror is a
(a) convex mirror (b) bifocal mirror (c) concave mirror (d) plane mirror

9. FILL IN THE BLANKS. (8 marks)

- (i) Larynx is also known as _____ .
(ii) _____ transport water and minerals.
(iii) One micro second is _____ of a second.
(iv) A group of two or more cells is called a _____ .
(v) Real images are always _____ .
(vi) Water bearing layer of earth is called _____ .
(vii) The process of loss of water from plants is called _____ .
(viii) _____ removes the floatable solids like oil and grease.

10. GIVE ONE WORD ANSWER. (8 marks)

- (i) The acid produced in our stomach to kill bacteria. _____
(ii) A muscular sheet forming the floor of chest cavity. _____
(iii) A protein produced by white blood cells to fight against diseases.
(iv) Transfer of pollen grains from anthers to stigma of flower of the same species. _____
(v) A piece of thin wire of high resistance, used in electric bulb. _____
(vi) Band of seven colours obtained on dispersion of white light. _____
(vii) Surface from which the ground water supply can be obtained. _____
(viii) All the plants found in a particular area. _____

SECTION – B (2 marks each)

11. Define photosynthesis and write its chemical reaction.
12. Differentiate between: Respiration and photosynthesis.
13. Differentiate between: Artery and vein.
14. Differentiate between: Concave and convex mirror.
15. What is the type of nutrition in Amoeba and Hydra ?
16. What is neutralization?
17. Why do we add lime to an acidic soil ?
18. Define asexual reproduction.
19. Why do we use fuse in electrical circuits ?
20. How can forests act as wind breakers ?
21. Why are cooking utensils made up of metal and their handles are made up of wood or plastic?
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SECTION – C (3 marks each)

22. Explain a rainwater harvesting system. Explain its component.
23. What are enzymes ? Give two examples of enzymes involved in digestion.
24. What is anaerobic respiration ? Write the word equation for the process.
25. Why is transportation of materials necessary in living organisms?
26. List two important functions of white blood cells.
27. Differentiate between uniform and non-uniform motion.
28. Draw a closed circuit diagram using symbols. Use battery as the source of current.
29. What is the significance of constructing manholes along road sides ?

SECTION – D (5 marks each)

30. Draw a well labelled diagram of bisexual flower.
31. Describe a simple experiment to show that light travels in a straight line.

