

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.

SECTION – A (1 mark each)

MULTIPLE CHOICE QUESTIONS. (8 marks)

1. _____ is used in starch test .
(a) Safranin (b) Blue ink (c) Iodine (d) Litmus
2. Which of the acid is secreted in the stomach ?
(a) Hydrochloric acid (b) Nitric acid (c) Sulphuric acid (d) Phosphoric acid
3. Exchange of gases takes place during _____ .
(a) Respiration (b) Circulation (d) Breathing (c) Transpiration
4. Which of the following carry blood towards heart ?
(a) Arteries (b) Veins (c) Capillaries (d) Aorta
5. Spores are formed by
(a) Yeast (b) Spirogyra (c) Mucor (d) Rose
6. Which of the following relations is correct ?
(a) Distance = speed/time (b) Speed = time/distance
(c) Distance = speed × time (d) Speed = distance × time
7. Which equipment is not based on heating effect of electric current ?
(a) Electric bulb (b) Electric oven (c) Electric iron (d) Electric kettle
8. A light ray gets refracted towards the normal when it passes from
(a) Denser to rarer medium (b) Water to air
(c) Both a. and b. (d) None of these

9. FILL IN THE BLANKS. (8 marks)

- (i) The cause of muscle cramp is _____ respiration.
- (ii) Birds and insects excrete _____ .
- (iii) A body is said to be in _____ if it covers equal distance in equal interval of time.
- (iv) Full form of LED is _____ .
- (v) _____ mirrors can be used to see a magnified image of our face.
- (vi) Rain water percolates through different layers of soil by the process of _____ .
- (vii) Saprophytes are also known as _____ .
- (viii) _____ is a biogas.

10. GIVE ONE WORD ANSWER. (8 marks)

- (i) Nature of saliva produced in our mouth. _____
- (ii) The oxygen carrying components in blood. _____
- (iii) The network of very small vessels formed by two different kinds of blood vessels.

- (iv) Asexual reproductive unit protected by thick wall. _____
- (v) A number of primary or secondary cells arranged in series or parallel formation.

- (vi) An image that can be obtained on a screen. _____
- (vii) Passing chlorine gas through water to destroy germs. _____
- (viii) A process of preparing food in plants. _____

SECTION – B (2 marks each)

- 11. What is an electromagnet ?
 - 12. What is a food web ?
 - 13. What is a pH scale? How does it help to identify the nature of a solution?
 - 14. Name the glands associated with digestion.
 - 15. Why does a piece of bread taste sweet on chewing ?
 - 16. Why do room heaters have polished reflectors ?
 - 17. How is inhaled air different from exhaled air ?
 - 18. List the four major components of blood.
 - 19. Differentiate between: Autotrophic and heterotrophic mode of nutrition.
 - 20. Differentiate between: Asexual reproduction and sexual reproduction.
 - 21. Differentiate between: Reflection and refraction of light.
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SECTION – C (3 marks each)

22. Discuss the ways of ingesting food by the following animals :
- (i) Frog
 - (ii) Hydra
 - (iii) Mosquito & butterfly
23. Explain length, oscillation, amplitude and time period with reference to simple pendulum.
24. What is the function of kidney? Name its filtering unit.
25. Why are deep breathing exercises good for health ?
26. How does water move up in tall trees ?
27. What is water cycle ?
28. How is sludge useful after its treatment ?
29. Draw a labelled diagram of an electric bell and explain how current flows through it.

SECTION – D (5 marks each)

30. Describe a simple experiment to show that light travels in a straight line.
31. Match the following:

Column A	Column B
(1) Stems	(i) Maple
(2) Spores	(ii) Yeast
(3) Bud	(iii) Potato
(4) Wings	(iv) Rose
(5) Eyes	(v) Bread mould

