

SYLLABUS : GRAND TEST**GENERAL INSTRUCTIONS : Draw Diagrams with Pencils.**

- All questions are compulsory. **Maximum Marks are 60.**
- The question paper consists of 24 Questions.
- **Section – A** : Question 1 to 6 are 1mark each.
- **Section – B** : Question 7 to 12 are 2 marks each.
- **Section – C** : Question 13 to 18 are 3 marks each.
- **Section – D** : Question 19 to 24 are 4 marks each.

SECTION: A (1 × 6 = 6)

1. What are the by-products of the anaerobic respiration?
2. The _____ is the common passage for food and air.
3. What is translocation?
4. What is a solenoid?
5. What are the essential components of an electric circuit?
6. List the characteristics of the image formed by a plane mirror.

SECTION: B (2 × 6 = 12)

7. List the differences between concave & convex lenses.
8. If a transparent ruler is held in sunlight you see various colours. Explain.
9. What is fuse? On what principle it is based?
10. Why we need to breath faster during vigorous exercises?
11. Explain components of blood.
12. List some uses of electromagnets.

SECTION: C (3 × 6 = 18)

13. Explain how do we breath?
14. Explain breathing in frogs.
15. Explain heating effect & magnetic effect of current with examples.
16. Explain transportation system in plants.
17. Write the nature of image formed by concave and convex mirrors. Also write their uses.
18. (a) Why are household wires covered with plastic or rubber?
(b) What is fuse wire made up of?

SECTION: D (4 × 6 = 24)

- 19.** Explain circulation of blood through the human heart.
- 20.** Describe excretory system in humans.
- 21.** Describe the working of electric bell.
- 22.** Explain reflection of light with ray diagram. State the laws of reflection.
- 23.** Describe breathing process of cockroach and fishes.
- 24.** How is waste material disposed of in plants? What is transpiration. Write its significance.