

Section A - Multiple Choice Questions

- Q1. Which of the following is NOT a renewable resource? (3 marks)
- Q2. What is the chemical formula for sulphuric acid? (3 marks)
- Q3. Which of the following is responsible for the transportation of oxygen in the blood? (3 marks)
- Q4. What is the SI unit of electric current? (3 marks)
- Q5. Which type of lens is used to correct myopia? (3 marks)
- Q6. What is the process by which plants convert light energy into chemical energy? (3 marks)

Section B - Fill in the Blanks

- Q7. The process of converting solar energy into electricity is called _____. (1 marks)
- Q8. The chemical formula for water is _____. (1 marks)
- Q9. The unit of power is the _____. (1 marks)
- Q10. The process of rusting is a type of _____. (1 marks)
- Q11. The basic unit of heredity is called a _____. (1 marks)
- Q12. The force of attraction between two objects is called _____. (1 marks)
- Q13. The process of splitting of a nucleus into lighter nuclei is called _____. (1 marks)
- Q14. The outermost shell of an atom is called the _____. (1 marks)

Section C - Short Answer Questions

- Q15. Explain the difference between renewable and non-renewable resources. (4 marks)
- Q16. What is the role of ozone layer in the atmosphere? (4 marks)
- Q17. Define the term 'pH'. Explain the pH scale. (4 marks)
- Q18. Briefly explain the process of photosynthesis. (4 marks)
- Q19. Explain the concept of reflection of light. (4 marks)

Section D - Long Answer Questions

- Q20. Describe the structure and functions of the human heart. (5 marks)
- Q21. Explain the different types of chemical reactions with examples. (5 marks)
- Q22. Explain Ohm's Law and its applications. (5 marks)
- Q23. Discuss the different types of pollution and their effects on the environment. (5 marks)

Q24. Explain the process of digestion in humans. (5 marks)

Q25. Describe the different types of reproduction in plants. (5 marks)

Section E - Matching Questions

Q26. Match the following: (4 marks)

Column A

1. Force
2. Velocity
3. Acceleration
4. Work

Column B

- a. m/s^2
- b. Joule
- c. Newton
- d. m/s

Section F - Case Study

Q27. A farmer is facing a problem of crop failure due to pest infestation. He tries different methods to control