GENERAL INSTRUCTIONS:
(1) The question paper comprises of two sections A and B. You have to attempt all the two sections.
(2) All questions are compulsory.
(3) Question number 1 to 5 are very short answer type questions. Each question carries 1 mark.
(4) Question number 6 to 12 are short answer type questions. Each question carries 2 marks.
(5) Question number 13 to 19 are also short answer type questions. Each question carries 3 marks.
(6) Question number 20 and 22 are long answer type questions. Each question carries 5 marks.
(7) Question number 23 to 27 are Multiple Choice Questions. Each question carries 1 mark.

SECTION A

Q1. Burning of coal is which type of change, Physical or chemical?  

Q2. How is soil formed?  

Q3. Name the reproductive part of the plant?  

Q4. Draw the symbols to represent cell and battery?  

Q5. Give two examples of decomposers.  

Q6. How is clayey soil useful for crops?  

Q7. Name the main respiratory organs in human being and fish.  

Q8. What is virtual image? Give one situation where virtual image is formed?  

Q9. Sketch the cross section of soil and label the various layers.  

Q10. Explain the function of bar screens in a waste water treatment plant.  

Q11. State two differences between concave and convex lens.  

Q12. Do you think an electromagnet can be used for separating plastic bags from a garbage heap? Explain.
Q13. (a) When carbon dioxide is passed lime water it turns milky due to formation of ______ .
(b) The chemical name of baking soda is _____.
(c) Changes in which new substance is formed are called _____ changes.

Q14. List one similarity and two differences of aerobic and anaerobic respiration.

Q15. Draw the diagram of human excretory system and label its various parts.

Q16. Draw the circuit diagram to represent an electric circuit. Name any two effects of electric current.

Q 17. Explain how soil pollution can be prevented. (any three points)

Q18. (a) What is reflection of light?
(b) Give one use each of concave and convex mirror.

Q19. Explain the role of forest in maintaining the balance between oxygen and carbon dioxide in the atmosphere.

Q20. Answer the following
(a) The organ which pumps the blood is ______.
(b) The fluid part of the blood is ___.
(c) _____ cells help in clotting of blood.
(d) Red colour of the blood is due to presence of ____.
(e) Human heart has ____ chambers.

Q21. (a) What is the difference between sexual and asexual reproduction?
(b) Write down any three methods of asexual reproduction?

Q22. (a) What is sludge? Explain how it is treated?
(b) Name two chemicals used to disinfect water

SECTION B
Q23. Digestion of food is a
(a) Physical change
(b) Chemical change
(c) Both
(d) None
Q24. During heavy exercise, we get cramps in legs due to accumulation of
   (a) Carbon dioxide
   (b) Alcohol
   (c) Water
   (d) Lactic acid

Q25. Mature ovary forms the
   (a) Fruit
   (b) Seed
   (c) pistil
   (d) Stamen

Q26. Current flows through the circuit when the circuit is in the _____ condition.
   (a) Broken
   (b) Incomplete
   (c) Closed
   (d) Open

Q27. Which of the following is not a plant product
   (a) Plywood
   (b) Gum
   (c) Resin
   (d) Kerosene