

**CLASS VII  
SCIENCE**

**TIME ALLOWED:-2:30 Hours**

**MAX MARKS:-60**

**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 23to 27 are Multiple Choice Questions. Each question carries 1 mark.

**SECTION A**

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|--|---|
| Q1. Burning of coal is which type of change, Physical or chemical?                                       | 1 |
| Q2. How is soil formed?  | 1 |
| Q3. Name the reproductive part of the plant?   | 1 |
| Q4. Draw the symbols to represent cell and battery?  | 1 |
| Q5. Give two examples of decomposers.  | 1 |
| Q6. How is clayey soil useful for crops?   | 2 |
| Q7. Name the main respiratory organs in human being and fish.  | 2 |
| Q8. What is virtual image? Give one situation where virtual image is formed?                             | 2 |
| Q9. Sketch the cross section of soil and label the various layers.                                       | 2 |
| Q10. Explain the function of bar screens in a waste water treatment plant.                               | 2 |
| Q11. State two differences between concave and convex lens.  | 2 |
| Q 12 Do you think an electromagnet can be used for separating plastic bags from a garbage heap? Explain. | 2 |

- Q13. (a) When carbon dioxide is passed lime water it turns milky due to formation of \_\_\_\_\_. 3  
 (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. 3
- Q15. Draw the diagram of human excretory system and label its various parts. 3
- Q16. Draw the circuit diagram to represent an electric circuit. Name any two effects of electric current. 3
- Q 17. Explain how soil pollution can be prevented. ( any three points) 3
- Q18. (a) What is reflection of light? 3  
 (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. 3
- Q20. Answer the following 5  
 (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? 5  
 (b) Write down any three methods of asexual reproduction?
- Q22. (a) What is sludge? Explain how it is treated? 5  
 (b) Name two chemicals used to disinfect water

### SECTION B

- Q23. Digestion of food is a 1  
 (a) Physical change  
 (b) Chemical change  
 (c) Both  
 (d) None

- Q24. During heavy exercise, we get cramps in legs due to accumulation of 1
- (a) Carbon dioxide
  - (b) Alcohol
  - (c) Water
  - (d) Lactic acid
- Q25. Mature ovary forms the 1
- (a) Fruit
  - (b) Seed
  - (c) pistil
  - (d) Stamen
- Q26. Current flows through the circuit when the circuit is in the \_\_\_\_\_ condition. 1
- (a) Broken
  - (b) Incomplete
  - (c) Closed
  - (d) Open
- Q27. Which of the following is not a plant product 1
- (a) Plywood
  - (b) Gum
  - (c) Resin
  - (d) Kerosene