

**KENDRIYA VIDYALAYA SANGATHAN
CHANDIGARH REGION
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