



B.K. BIRLA CENTRE FOR EDUCATION

SARALA BIRLA GROUP OF SCHOOLS
A CBSE DAY-CUM-BOYS' RESIDENTIAL SCHOOL

PERIODIC TEST-I 2025-26 SCIENCE(086)

Class: X

Date: 03.07.25

Admission no:

General Instructions:

Time: 1hour

Max Marks: 25

Roll no:

- This question paper consists of 12 questions in 3 sections.
- Section A consists of 3 objective-type questions carrying 1 mark each.
- Section B consists of 5 Very Short questions carrying 02 marks each.
- Section C consists of 4 Short Answer questions with 03 marks each.

Section A

- The laws of reflection hold true for
(a) plane mirrors only (b) concave mirrors only
(c) convex mirrors only (d) all reflecting surface 1
- $Zn + H_2SO_4 \rightarrow ZnSO_4 + H_2$
(a) Combination reaction (b) Double displacement reaction
(c) Decomposition reaction (d) Displacement reaction 1
- Secretion of less saliva in mouth will effect the conversion of:
(a) proteins into amino acids (b) fats into fatty acids and glycerol
(c) starch into simple sugars (d) sugars into alcohol 1

Section B

- State and explain Snell's law. 2
- If the image formed by a spherical lens for all positions of the object placed in front of it is always erect and diminished, what type of lens is it? Draw a labelled ray diagram to support your answer. 2
- Explain oxidation and reduction reaction with suitable examples. 2
- Explain double displacement reaction with Examples. 2
- Differentiate between:
(a) transpiration and translocation
(b) aerobic and anaerobic respiration 2

Section C

- An object 4 cm in height, is placed at 15 cm in front of a concave mirror of focal length 10 cm. At what distance from the mirror should a screen be placed to obtain a sharp image of the object. Calculate the height of the image. 3
- A compound of white coloured substance X is heated in a test tube. A brown-colored gas, Y, is evolved along with oxygen gas, and a yellow-colored substance, Z, is formed. Identify X Y and Z. Write the reaction involved in it. 3
- Describe the double circulation of blood in human beings with the help of a diagram. Why is it necessary? 3
- (a) What are the methods used by plants to get rid of excretory products?
(b) How is the amount of urine produced regulated? 3

*****ALL THE BEST*****