



B.K. BIRLA CENTRE FOR EDUCATION

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

PRE-MID TERM TEST-I 2025-26

SCIENCE (086)

Class: X

Date: 02.08.25

Admission no:

Time: 1 hour

Max Marks: 25

Roll no:

General Instructions:

- This question paper consists of 13 questions in 3 sections.
- Section A consists of 5 objective-type questions carrying 1 mark each.
- Section B consists of 4 Very Short questions carrying 02 marks each.
- Section C consists of 4 Short Answer questions with 03 marks each.

Section A

- Common name of CaOCl_2 1
 (a) washing soda (b) baking soda
 (c) bleaching powder (d) tartaric acid
- At what temperature is gypsum heated to form Plaster of Paris? 1
 (a) 300K (b) 373K (c) 383K (d) 393K
- How many water molecules does hydrated Ferrous sulphate contain? 1
 (a) 5 (b) 10 (c) 7 (d) 2
- Match column-I and column-II and choose the correct option. 1

Column I	Column II
(P) Olfactory receptors	(i) Taste
(Q) Thermoreceptors	(ii) Vision
(R) Gustatory receptors	(iii) Smell
(S) Photoreceptors	(iv) Temperature

 (a) P-(iv) Q-(iii) R-(i) S-(ii)
 (b) P-(iii) Q-(iv) R-(ii) S-(i)
 (c) P-(iii) Q-(i) R-(iv) S-(ii)
 (d) P-(iii) Q-(iv) R-(i) S-(ii)
- Assertion(A): A normal human eye can clearly see all the objects beyond a certain minimum distance. 1
 Reason (R) : The human eye has the capacity of adjusting the focal length of eye lens.
 (a) Both A and R are true and R is the correct explanation of A.
 (b) Both A and R are true and R is not the correct explanation of A.
 (c) A is true but R is false.
 (d) A is False but R is true.

Section B

- What is meant by the power of accommodation of the eye? 2
- State the functions of following eye parts; 2
 (i) Cornea
 (ii) Pupil
 (iii) Retina
 (iv) Optic Nerves
- How would you prepare baking soda? Give one use of it. 2
- What is reflex arc? Draw a labelled diagram to show reflex arc on touching a very hot object. 2

Section C

- | | | |
|-----|--|---|
| 10. | What is Myopia? Write different causes for Myopia in the human eye. Explain its correction by showing a suitable ray diagram. | 3 |
| 11. | Five solutions A, B,C and D have pH = 1, 3, 5, 7 and 8 respectively.
(i) Which solution has highest concentration of H ⁺ ions?
(ii) Which solution has the lowest concentration of H ⁺ ions?
(iii) Which is most basic in nature? | 3 |
| 12. | (a) Why is the use of iodised salt is advisable?
(b) How does our body respond when adrenaline is secreted into the blood?
(c) How are brain and spinal cord protected? | 3 |
| 13. | (a) Explain how does the shoot of the plant appears to be bend towards light?
(b) Differentiate between nastic and tropic movements in plants | 3 |

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