



B.K. BIRLA CENTRE FOR EDUCATION

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

PRE-MID TERM TEST 2026-27

SCIENCE

SET-I

Class: X

Date: 23.07.26

Admission no:

General Instructions:

- This question paper consists of 13 questions in 3 sections.
- Section A, Biology of 9 marks.
- Section B, Chemistry of 8 marks.
- Section C, Physics of 8 marks.

Time: 1hour

Max Marks: 25

Roll no:

Section A (Biology)		
1.	The substance that triggers the fall of mature leaves and fruits from plants is due to (a) auxin (b) gibberellin (c) abscisic acid (d) cytokinin	1
2.	Which of the following statements are true about the brain? (i) The main thinking part of the brain is the hindbrain. (ii) Centres of hearing, smell, memory, sight, etc., are located in the forebrain. (iii) Involuntary actions like salivation, vomiting, and blood pressure are controlled by the medulla in the hind brain. (iv) The cerebellum does not control the posture and balance of the body. (a) (i) and (ii) (b) (i), (ii) and (iii) (c) (ii) and (iii) (d) (iii) and (iv)	1
3.	a) Why is the use of iodised salt advisable? b) How does our body respond when adrenaline is secreted into the blood?	2
4.	How do auxins promote the growth of a tendril around a support?	2
5.	A. Draw the structure of a neuron and label the following parts of a neuron, which perform the following functions: i) where information is acquired. ii) through which information travels as an electrical impulse. iii) where this impulse is converted into a chemical signal. B. Which signals will get disrupted in case of a spinal cord injury?	3
Section B (Chemistry)		
6.	Common name of $\text{Na}_2\text{CO}_3 \cdot 10\text{H}_2\text{O}$ (a) washing soda (b) baking soda (c) bleaching powder (d) tartaric acid	1
7.	At what temperature is gypsum heated to form Plaster of Paris? (a) 300K (b) 373K (c) 383K (d) 393K	1

8.	Five solutions A, B,C, D and E have pH = 1, 2, 5, 7 and 14 respectively. (i) Which solution has the highest concentration of H ⁺ ions? (ii) Which solution has the lowest concentration of H ⁺ ions? (iii) Which is most basic in nature?	3
9.	a.How would you prepare baking soda? Give one use of it. b. What is olfactory indicator? Give one example	3
Section C (Physics)		
10.	The ability of the eye lens to adjust its focal length to focus on near and distant objects is called: (a) Refraction (b) Power of Accommodation (c) Reflection (D) Persistence of vision	1
11	Name the colour of light which bends (i) the most (ii) the least while passing through a glass prism. Draw a ray diagram to justify your answer.	2
12.	Explain atmospheric refraction using a suitable diagram.	2
13.	Define myopia. Write different causes responsible for myopia. Explain the working of myopic eye and its correction by ray diagram.	3

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