



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-II

Class: IX

Date: 21.07.26

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: 1 hour

Max Marks: 25

Roll no:

	Section A (Biology)	
1.	Lysosome arises from (a) endoplasmic reticulum (b) golgi apparatus (c) nucleus (d) mitochondria	1
2.	Find out the false sentences (a) Golgi apparatus is involved with the formation of lysosomes (b) Nucleus, mitochondria and plastid have DNA; hence they are able to make their own structural proteins (c) Mitochondria is said to be the power house of the cell as ATP is generated in them. (d) Cytoplasm is called as protoplasm	1
3.	a) Why are lysosomes known as suicide bags? b) What are the two types of plastids ? Write their functions.	2
4.	What are tumours? How are they formed?	2
5.	Differentiate between mitosis and meiosis.	3
	Section B (Chemistry)	
6.	In sugar solution: (a) Sugar is solute, water is solvent (b) Sugar is solvent, water is solute (c) Both are solutes (d) Both are solvents	1
7.	A pure substance which is made up of only one kind of atom and cannot be broken into two or more simpler substances by physical or chemical means is referred to as (a) a compound (b) an element (c) a molecule (d) a mixture	1
8.	a) Define "Tyndall effect" b) Write the properties of Suspension.	3
9.	c) Define Alloy with suitable examples d) What are homogeneous mixtures	3
	Section C (Physics)	

10.	A goalkeeper in a football game pulls his hands backwards after holding the ball shot at the goal. This enables the goalkeeper to a. increase the rate of change of momentum b. decrease the rate of change of momentum c. increase the force exerted by the balls on the hands d. exert larger force on the ball	1
11	When a carpet is beaten with a stick, dust comes out of it. Explain.	2
12.	In the following example, try to identify the number of times the velocity of the ball changes: “A football player kicks a football to another player of his team who kicks the football towards the goal. The goalkeeper of the opposite team collects the football and kicks it towards a player of his own team”. Also identify the agent supplying the force in each case.	2
13.	A constant force acts on an object of mass 5 kg for a duration of 2 s. It increases the object's velocity from 3 m s ⁻¹ to 7 m s ⁻¹ . Find the magnitude of the applied force. Now, if the force was applied for a duration of 5 s, what would be the final velocity of the object?	3

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