



# B.K. BIRLA CENTRE FOR EDUCATION

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



## PRE-MID TERM EXAMINATION 2025-26 SCIENCE (086)

**Class: IX**

**Date: 07. 08. 25**

**Admission no:**

**General Instructions:**

- This question paper consists of 12 questions in 3 sections.
- Section A consists of 2 objective-type questions and 1 Assertion Reason based question 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.

**Time: 1hour**

**Max Marks: 25**

**Roll no:**

### Section A

- When a force is exerted on an object, it can change its: 1  
(a) State (b) Position (c) Shape (d) All the above
- Which of the following is a pure substance? 1  
(a) Air (b) Distilled water (c) Steel (d) Brass
- Assertion:** Parenchyma cells store food. 1  
**Reason:** Parenchyma cells are main sites of photosynthesis.  
(a) A and R are true; R explains A  
(b) A and R are true; R doesn't explain A  
(c) A true, R false  
(d) A false, R true

### Section B

- State Newton's second law of motion. Write its mathematical expression. 2
- An object accelerates at  $3 \text{ m/s}^2$  with a force of 15 N. What is the mass of the object? 2
- Write the points of differences between homogeneous and heterogeneous mixtures with examples. 2
- Classify the following into elements, compounds and mixtures. 2  
(a) Potassium  
(b) Soil  
(c) Calcium carbonate  
(d) Blood
- (a) Why does water hyacinth float? 2  
(b) What are the characteristic structural features of meristematic cells (any 2)?

### Section C

- State and explain the three types of inertia. 3
- (a) Define substance. 3  
(b) What are alloys? Give any two examples.
- Classify meristematic tissues based on location and state their functions. 3
- Explain types of elements present in phloem and their functions. 3

-----ALL THE BEST-----