



B.K. BIRLA CENTRE FOR EDUCATION

SARALA BIRLA GROUP OF SCHOOLS
A CBSE DAY-CUM-BOYS' RESIDENTIAL SCHOOL
PERIODIC TEST-I 2026-27
SCIENCE (086)
SET-1

Class: X

Date: 13.06.25

Admission no:

Time: 1hour

Max Marks: 25

Roll 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.

Section A (Biology)

- The blood leaving the tissues becomes richer in
a) Carbon dioxide b) Water c) Haemoglobin d) Oxygen 1
- What is the basic filtration unit in kidneys?
a) Tubule b) Neuron c) Nephron d) Ureters 1
- Why is blood circulation in human heart called double circulation? 2
- Give reason
a) Veins have thin walls as compared to arteries.
b) Transpiration is important for plants. 2
- How do plants excrete? 3

Section B (Chemistry)

- The layer formed on magnesium ribbon is
a) Magnesium oxide b) Magnesium sulphate c) Nitrate d) sulphide 1
- The antioxidant uses to preserve food packet is
a) Carbon dioxide b) Nitrogen gas c) Hydrogen d) Oxygen 1
- Identify A B and C

Heat



Or

Identify the substance oxidised, reduced, oxidising agent and reducing agent in the following equation:



9. Give Reason for the following:

(i) Magnesium ribbon is rubbed before burning.

(ii) The chemical equation is balanced.

(iii) Iron displaces Copper from Copper sulphate solution. 3

Section C (Physics)

10. A ray of light passing through the optical centre of a lens:

(a) Deviates

(b) Passes un-deviated

(c) Reflects back

(d) Gets absorbed 1

11. State Snell's Law of refraction. Define absolute refractive index of a material. 2

12. Draw ray diagram of image formation by convex lens when the object is between F and 2F. 2

13. An object 5 cm high is placed 20 cm in front of a concave mirror of focal length 10 cm.

(a) Find the position, size, and nature of the image.

(b) Draw a labelled ray diagram. 3

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