



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-2

Class: X

Date: 13.06.26

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.

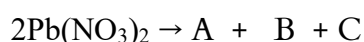
Section A (Biology)

- Name the pigment that binds with oxygen and transports it.
a) Carbon dioxide b) Chlorophyll c) Haemoglobin d) Oxygen 1
- Which parts of the human excretory system store urine?
a) Tubule b) Urethra c) Nephron d) Urinary bladder 1
- How do plants get rid of the waste materials? 2
- Differentiate between:
(a) warm-blooded and cold-blooded animals.
(b) Pulmonary artery and Pulmonary vein 2
- How does the transportation of water and food take place in plants? 3

Section B (Chemistry)

- Zinc reacts with H_2SO_4 acid a gas release
a) Oxygen b) Nitrogen c) Hydrogen d) Chlorine 1
- $x Na + y H_2O \rightarrow z NaOH + H_2$
a) $x=1$ $y=2$ $z=2$ b) $x=2$ $y=2$ $z=2$ c) $x=1$ $y=2$ $z=3$ d) $x=1$ $y=1$ $z=2$ 1
- Identify A B and C

Heat



Or

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



9. Explain by giving an example.

(i) Displacement reaction

(ii) Double displacement reaction. 3

Section C (Physics)

10. Refractive index depends on:

(a) Colour of light (b) Nature of medium (c) Temperature (d) All of these 1

11. Differentiate between real image and virtual image (any 2 points). 2

12. Draw a labelled diagram showing refraction through a rectangular glass slab.
Explain lateral displacement. 2

13. A concave mirror has a focal length 15 cm. An object is placed at 30 cm from the mirror.
Find:

(i) Position of image

(ii) Nature of image

(iii) Draw the ray diagram for the same. 3

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