



BK BIRLA CENTRE FOR EDUCATION
SARALA BIRLA GROUP OF SCHOOLS
SENIOR SECONDARY | CO-ED DAY CUM BOYS' RESIDENTIAL SCHOOL



PRE MID TERM EXAM-I 2024-25

SCIENCE (086)

Class: X

Date: 01/08/2024

Duration: 1 Hr

Max. Marks: 25

General Instructions:

- i. This question paper consists of 12 questions in 3 sections.
- ii. Section A consists of 3 objective type questions carrying 1 mark each.
- iii. Section B consists of 5 Very Short questions carrying 02 marks each.
- iv. Section C consists of 4 Short Answer type questions carrying 03 marks each.

Section A

1. A solution turns red litmus blue, its pH is likely to be 1
(a) 3 (b) 1 (c) 5 (d) 12
2. Which of the following is detected by gustatory receptors? 1
a) Sound b) Smell c) Taste d) Light

For Questions 3, two statements are given –one labelled Assertion (A) and other labelled Reason (R). Select the correct answer to these questions from the options as given below.

- a) If both Assertion and Reason are true and Reason is correct explanation of Assertion.
- (b) If both Assertion and Reason are true but Reason is not the correct explanation of Assertion.
- (c) If Assertion is true but Reason is false.
- (d) If both Assertion and Reason are false.
3. **Assertion (A):** A normal human eye can clearly see all the objects beyond certain minimum distance. 1
Reason (R): The human eye has capacity of adjusting the focal length of eye lens.

Section B

4. Why does distilled water not conduct electricity, whereas rain water does? 2
5. Which gas is usually liberated when an acid reacts with a metal? How will you test for the presence of this gas? 2
6. State one function of 2
(i) Iris (ii) crystalline lens, in human eye.
7. Draw ray diagrams showing (i) a hypermetropic eye and (ii) its correction using a suitable optical device. 2
8. Differentiate between: 2
a) Voluntary actions and Involuntary actions.
b) Cerebrum and Cerebellum

Section C

9. a) What is the common name of the compound CaOCl_2 ? 3
b) Write an equation to show the reaction between Plaster of Paris and water.

10. Draw a ray diagram to show the refraction of light through a glass prism. Mark on it (a) the incident ray, (b) the emergent ray and (c) the angle of deviation. 3
11. a) Why is the use of iodised salt advisable? 3
b) How does our body respond when adrenaline is secreted into the blood?
c) How is the blood sugar level regulated?
12. Draw the structure of neuron and label the following parts of a neuron which perform the following functions: 3
i) Where information is acquired.
ii) Through which information travels as an electrical impulse.
iii) Where this impulse is converted into a chemical signal.

***** Best of luck*****