BK BIRLA CENTRE FOR EDUCATION

SARALA BIRLA GROUP OF SCHOOLS
SENIOR SECONDARY|CO-ED DAY CUM BOYS' RESIDENTIAL SCHOOL
PERIODIC TEST-2(2024-25)
SCIENCE (o86)

Class: IX   **Duration: 1 Hr**
Date: 07.12.24   **Max. Marks: 25**
Admission No.:   **Roll No.:**

General Instructions:

i. This question paper consists of 12 questions. All questions are compulsory.

ii. There are three sections viz. A, B and C

iii. Section A – question numbers 1-3 are Very short Answer type questions carrying 1 mark each.

iv. Section B – question numbers 4-8 are short Answer type questions carrying 2 marks each.

v. Section C – question numbers 9-12 are 3 marks each.

vi. There is no overall choice. However, an internal choice has been provided in some questions.

vii. A student is expected to attempt only one of these.

Section–A

(*Q.no.1-3 are multiple choice questions of 1 mark each*)
(*Select and write one most appropriate option out of the four options given for each of the questions*)

1. S.I unit of pressure is: 1

   (a) Pa   (b) m   (c) cm   (d) None of these

2. Weeds are the unwanted plants that grow along with the cultivated plants. How do they

    affect   the crop plants?   1

   (a) By killing plants in the field before they grow.

   (b) By dominating the plants that grow in field.

   (c) By competing for nutrients in soil causing low availability of nutrients

   (d) All of above

3. Which of the following element is diatomic?   1

   (a) Magnesium   (b) Potassium   (c) Oxygen   (d) None of these

Section–B

(Q.no.4-8 are short answer questions of 2 marks each)

4. Why does an army tank weighing more than a thousand tons rests upon a continuous chain?　2

5. Why does an object float or sink when placed on the surface of water?　2

6. Differentiate between:

   (a) Kharif and Rabi crop.

   (b) Micronutrients and Macronutrients.　2

7. Write the chemical formulae of the following using the crisscross method.

   (a) Calcium oxide

   (b) Aluminum Sulphide　2

8. What are polyatomic ions? Give examples　2

Section - C

(Q.no.9-12 are short answer questions of 3 marks each)

9. The volume of 50 g of a substance is 20 cm^3. If the density of water is 1 g cm^{-3}, will the substance float or sink?　3

10. (a) Calculate the molecular masses of the following:

   (Atomic mass of: C = 12u, H = 1u, N = 14u, O = 16u)

   (i) C_2H_2　　　　　　　(ii) HNO_3　2

   (b) How many atoms are present in SO_4^{2-} and H_2S ?　1

11. (a) Why should preventive measures and biological control methods be preferred for protecting crops?　1

   (b) Why are manure and fertilizers used in fields?　1

   (c) What are the advantages of inter-cropping and crop rotation?　1

12. Mention the process by which a farmer provides water to crops other than rain water.

   Explain any three ways of supplying water to crops.　3

OR

   A farmer incurs heavy loss due to spoilage of crop due to various reasons.

   Write a detailed note on role of different living forms that damage the crops.　3

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