



BK BIRLA CENTRE FOR EDUCATION

SARALA BIRLA GROUP OF SCHOOLS
SENIOR SECONDARY CO-ED DAY CUM BOYS' RESIDENTIAL SCHOOL
PRE MID TERM TEST 2024-25
SCIENCE (086)



Class : IX
Date : 03.08.24
Admission No.:

Duration: 1 Hr.
Max. Marks: 25
Roll No.:

General Instructions:

- This question paper consists of 12 questions. All questions are compulsory.
- There are three sections viz. A, B and C
- Section A – question numbers 1-3 are Very short Answer type questions carrying 1 mark each.
- Section B – question numbers 4-8 are short Answer type questions carrying 2 marks each.
- Section C – question numbers 9-12 are 3 marks each.
- There is no overall choice. However, an internal choice has been provided in some questions.
A student is expected to attempt only one of these questions.

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)

- In a distance-time graph, a straight horizontal line represents what kind of motion?
(a) Uniform motion (b) Nonuniform motion
(c) No motion (d) Accelerated motion 1
- Select the correct answer: 1
(a) Plant and animal tissues are made up of the same type of cells.
(b) Permanent tissues are dividing tissues.
(c) Cells of cork are dead and compactly arranged.
(d) Epidermal cells are absent in the roots.

Direction: The question below consists of an Assertion (A) and a Reason (R). Use the following key to choose the appropriate answer.

- If both assertion and reason are correct and reason is correct explanation of the assertion.
 - If both assertion and reason are correct, but the reason is not the correct explanation of the assertion.
 - If assertion is correct, but reason is incorrect.
 - If assertion is incorrect, but reason is correct.
- ASSERTION (A):** Elements and compounds are pure substances. 1
REASON (R): Properties of compounds are different from those of its constituent elements.

Section–B

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

4. Classify the following as chemical or physical changes: 2
- (a) Rusting of almirah.
 - (b) Dissolving sugar in water.
 - (c) Melting of candle wax.
 - (d) Burning of paper.
5. Differentiate between mixtures and compounds. 2
6. 1. A ball is gently dropped from a height of 20 m. If its velocity increases uniformly at the rate of 10 m s^{-2} , with what velocity will it strike the ground? After what time will it strike the ground? 2
7. What is Acceleration? Write its SI unit. 2
8. Differentiate between: 2
- a) Xylem and Phloem
 - b) Chlorenchyma and Aerenchyma

Section– C

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

9. (a) Write any two physical properties of metals 1
- (b) Define tyndall effect. Give examples of any two substances showing tyndall effect. 2
10. Prove the following equation of motion 3
- i. $v = u + at$
 - ii. $S = ut + \frac{1}{2} at^2$
11. Write functions of each : 3
- a) Parenchyma
 - b) Collenchyma
 - c) Sclerenchyma
12. a) Draw a well-labelled diagram of guard cells. 1
- b) What is a Meristematic tissue? What is the role of apical meristem? 1
- c) Which tissue makes up the husk of coconut? 1

XXXXX end of the paper xxxxxxxxxxxx