



B.K. BIRLA CENTRE FOR EDUCATION

SARALA BIRLA GROUP OF SCHOOLS
A CBSE DAY-CUM-BOYS' RESIDENTIAL SCHOOL

PERIODIC TEST-I 2025-26

SCIENCE (086)

Class: IX
Date: 05.07.25
Admission no:

Time: 1hour
Max Marks: 25
Roll No:

General Instructions:

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

Section A

- If the displacement of an object is proportional to square of time, then the object moves with: 1
(a) Uniform velocity (b) Uniform acceleration
(c) Increasing acceleration (d) Decreasing acceleration
- Which of the following is an example of sublimation? 1
(a) Ice melting (b) Water evaporating
(c) Dry ice changing directly to gas (d) Boiling water forming steam
- Plasmolysis in a plant cell is defined as: 1
(a) breakdown (lysis) of plasma membrane in hypotonic medium
(b) Shrinkage of cytoplasm in hypertonic medium
(c) Shrinkage of nucleoplasm
(d) None of them

Section B

- A car accelerates from 6 ms^{-1} to 16 ms^{-1} in 10 sec. Calculate; 2
(a) The acceleration and
(b) The distance covered by the car in that time.
- (a) Differentiate between uniform motion and non-uniform motion. 2
(b) Write any two examples of uniform motion and two of non-uniform motion.
- Write any two characteristics of the particles of matter. 2
- To which physical state of matter do the following statements apply? 2
(a) Incompressible, no fixed shape
(b) Compressible, no definite volume

8. What will happen to a plant cell and an animal cell, if they are placed in 2
(a) Hypotonic solution
(b) Hypertonic solution

Section C

9. Draw the shape of the velocity-time graph for uniform motion of an object. Using the graph, write steps to calculate; 3
(a) Velocity
(b) Displacement
10. (a) Why do the gases exert more pressure on the walls of the container than the solids?
(b) Convert the following temperatures to the Celsius scale.
(i) 383 K (ii) 170 K 3
11. Give reason. 3
(a) Lysosomes are known as suicide bags.
(b) Mitochondria are known as the powerhouse of the cell.
(c) Bacteria and fungus can withstand much greater changes in the surrounding medium than animal cells.
12. Differentiate between: 3
(a) Unicellular and multicellular organisms
(b) Prokaryotic and Eukaryotic cell
(c) Plant cell and animal cell.

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