



INDIAN SCHOOL SOHAR
PERIODIC TEST I (2022 - 23)
SCIENCE (086)

CLASS: IX
DATE: 18.05.22

MAX MARKS: 20
TIME : 45 MINUTES

General Instructions:

SET 1

- i) All questions are compulsory.
- ii) The question paper has three sections and 11 questions.
- iii) Section-A has 5 questions of 1 mark each; Section-B has 3 questions of 2 marks each; Section-C has 2 questions of 3 marks each and 1 case-based question of 3 marks.

SECTION - A

1.	What type of motion is exhibited by a freely falling body ? a) Non-uniform acceleration b) Uniform acceleration c) Uniform velocity d) Uniform speed	1
2.	Name the process involved in the following change: Gas \longrightarrow Liquid a) Solidification b) Sublimation c) Condensation d) Vaporisation	1
3.	Boiling point of a liquid is 623K. What will be its value in Celsius scale? a) 350°C b) 896°C c) -350°C d) -896°C	1
	For question numbers 4 and 5, a statement of assertion (A) & corresponding statement of reason (R) are given. Choose the most appropriate answer to these questions from the given options . a) Both A & R are true and R is the correct explanation of A . b) Both A & R are true but R is not the correct explanation of A . c) A is true but R is false. d) A is false but R is true.	
4.	(A): The nucleus plays a central role in cellular reproduction. (R): The nucleus has a double layered covering called nuclear membrane.	1
5.	(A): Cell organelles together constitute the basic unit called the cell. (R): A cell is able to live and perform all its functions because of its organelles.	1

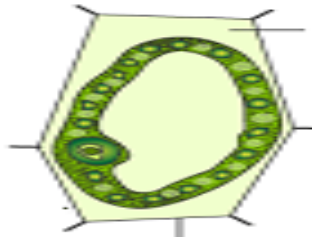
SECTION - B

6.	a) Which property of cell membrane enables amoeba to engulf in food from its external environment ? What is this process called ? b) Name the chief organic molecules which make up the plasma membrane.	2
7.	a) What is the acceleration of a body moving with uniform velocity ? b) A bus accelerates uniformly from 54km/h to 72km/h in 10s. Calculate the acceleration of the bus in m/s^2 .	2

8.	Give reasons for the following: a) A gas cylinder cannot be half filled. b) We smell perfume sitting a few metres away.	2
----	---	---

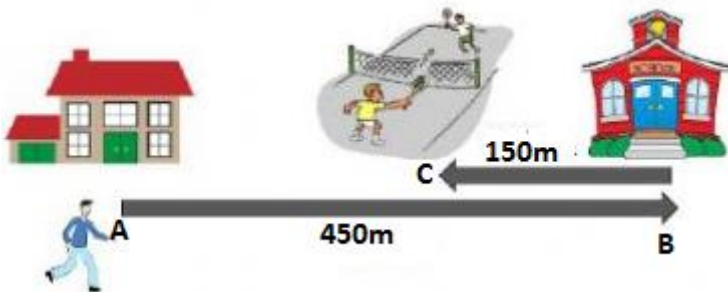
SECTION -C

9.	With the help of a labelled diagram describe in brief an activity to show sublimation of ammonium chloride.	3
10	a) Compare the nuclear region of an onion cell and a bacterial cell. b) In the given figure, what type of solution the cell is kept? Name and define the phenomenon shown below.	3



Case-based question

11	Arjun lives at place A and he has to reach another place C , but first he has to meet his friend living at place B . So, he starts from place A and travels a distance of 450m in 3 minutes to reach place B , and then travels another 150m back to a place C in another 1 minute.	3
----	---	---



- Calculate Arjun's average speed of the entire journey (from A to C) in m/s.
- Observe the above diagram and calculate the magnitude of distance travelled and displacement by Arjun's whole journey.
- From A to C the distance travelled and the magnitude of displacement is not equal. Give reason for the above observation.
