



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 2

- 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

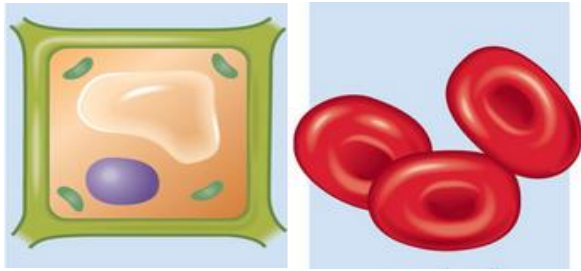
1.	Which of the following can be 'zero' for a moving body? i) average velocity ii) distance travelled iii) average speed iv) displacement a) only (i) b) (i) and (ii) c) (i) and (iv) d) only (iv)	1
2.	Name the process involved in the following change: Solid \longrightarrow Gas a) Solidification b) Sublimation c) Condensation d) Vaporisation	1
3.	Boiling point of a liquid is 433K. What will be its value in Celsius scale? a) 706°C b) -160°C c) 160°C d) -706°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): Plant cells have an additional outer covering called cell wall. (R): Cellulose provides structural strength to the plants.	1
5.	(A): Gaseous exchange between the cells takes place by simple process of diffusion. (R): Diffusion is the spontaneous movement of a substance from a region of low concentration to a region of high concentration.	1

SECTION - B

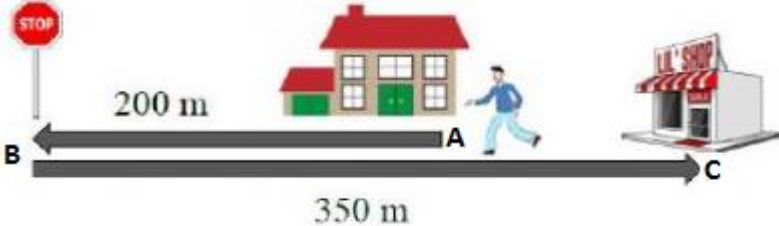
6.	a) When does the thread like chromatin material get organised into rod like structures ? What are chromosomes composed of ? b) Name the functional segments of DNA.	2
7.	a) Define the term 'uniform acceleration'. b) A train accelerates uniformly from 36km/hr to 54km/hr in 10 seconds. Find the acceleration of the train in m/s^2 .	2

8.	Give reasons for the following: a) Steam produces more severe burns than boiling water even though the temperature of both are 100°C. b) Gases exert pressure on the walls of container.	2
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SECTION - C

9.	With the help of a diagram explain in brief an activity to show that particles of matter are very small.	3
10	Cells of onion peel and RBC are separately kept in hypotonic solution for sometime. What will happen to the cells in figure A and figure B? Explain the reason . <div style="text-align: center;">  </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> A B </div>	3

Case based question

11.	<p>Arjun lives at place A and he has to reach another place C, but first he has to meet his friend at place B. So, he starts from place A and travels a distance of 200 m in 1 minute 20 seconds to reach place B, and then travels another 350 m back to a place C in another 2 minutes 50 seconds.</p> <div style="text-align: center;">  </div> <ol style="list-style-type: none"> 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 B the distance moved and the magnitude of displacement is equal. Give reason for the above observation. 	3
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