INDIAN SCHOOL SOHAR **SET I**

STD IX **PERIODIC TEST 1 (2017-18)** **Time: 40 minutes**

16 -5-17 **SCIENCE** **Marks: 20**

1. Name the physical quantities denoted by:

(i) slope of the distance - time graph (ii) area under the velocity – time graph. (1)

2. Convert the following temperatures to Kelvin scale. (1)

a)70^0C b) 245^0C

3. Name the following: (1)

a) Amoeba acquires its food through such process.

b) contraction of the cell contents, away from the cell wall.

4. State the type of motion exhibited by a freely falling body. (1)

5. Name the process involved in the following changes: (1)

a) liquid to solid b) solid to gas

PTO

INDIAN SCHOOL SOHAR **SET II**

STD IX **PERIODIC TEST 1 (2017-18)** **Time: 40 minutes**

16 -5-17 **SCIENCE** **Marks: 20**

1. Name the process involved in the following changes: (1)

a) liquid to gas b) solid to liquid

2. Name the physical quantities denoted by: (1)

(i) slope of the velocity - time graph (ii) straight line parallel to the time axis of a distance -time graph

3. Convert the following temperatures to Celsius scale: (1)

a) 680K b)185 K

4. State the condition under which the magnitude of average velocity of an object is equal to its average speed. (1)

5. Name two components of which chromosomes are composed of. (1)

PTO

SET I

6. A bus accelerates uniformly from 54 km/h to 72 km/h in 10s. Calculate (i) acceleration in m/s^2

(ii) distance covered by the bus in meters during this time interval. (2)

7. Give reasons for the following: (2)

   a) A gas exerts pressure on the walls of a container.
   b) Steam produces more severe burns than boiling water.

8. Compare (a) chromosomes (b) organelles of prokaryotic and eukaryotic cells. (2)

9. When will you say a body is in (i) uniform acceleration(ii) non uniform acceleration? Draw a velocity – time graph for each type of motion. (3)

10. With the help of an activity prove that the rate of diffusion changes with temperature. (3)

11. Why does the plant cell placed in a hypotonic solution, not burst? Explain. (3 points) (3)

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SET II

.6. Give reasons for the following: (2)

   a) We can smell perfume sitting a few metres away.
   b) Ice at 0^0C is more effective in cooling than water at 0^0C.

7. A train starting from rest accelerates uniformly and attains a velocity of 72 km/h in 5 minutes. Find, (i) the acceleration (ii) the distance travelled by the train for attaining this velocity. (2)

8. Compare the size and nucleus of prokaryotic and eukaryotic cell. (2)

9. With the help of an activity prove that the strength of force of attraction varies from one kind of matter to another. (3)

10. Draw a velocity – time graph for an object in uniform acceleration. Show that the area under the velocity time graph gives the displacement of the object. (3)

11. The cells of plants and bacteria exist in hypotonic media without bursting. Explain how? (3 points) (3)

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