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SET A



# INDIAN SCHOOL MUSCAT

## FIRST PERIODIC TEST

### SCIENCE

CLASS: IX

Sub.Code: 086

Time Allotted: 50mts.

21.05.2023

Max .Marks: 20

### GENERAL INSTRUCTIONS:

1. All Questions are compulsory.
2. Draw Diagram wherever necessary.

1. What is the SI unit of retardation? 1
2. Under what conditions can a body travel a certain distance and yet its resultant displacement be zero? 1
3. Distinguish between displacement and distance covered by a body in given time. 1
4. Bus X travels a distance of 360 km in 5 hours whereas bus Y travels a distance of 476 km in 7 hours. Which bus travels faster? 2
5. a) Define velocity. What is the SI unit of velocity? 2  
b) When is body said to have uniform velocity?
6. All matter is made up of \_\_\_\_\_. 1  
(a) holes (b) particles (c) charges (d) none of these
7. Which statement is false about solid, liquid and gas? 1  
(a) The solids have closely packed particles and are rigid.  
(b) The liquid and gases are fluids so that it can flow at any direction.  
(c) Solids diffuse into another solid more easily.  
(d) Gases are highly compressible and the particles have more freedom to move.

8. Question No.8 consist of two statements – Assertion (A) and Reason (R). Answer these questions selecting the appropriate option given below: 1
- A. Both A and R are true and R is the correct explanation of A  
B. Both A and R are true and R is not the correct explanation of A  
C. A is true but R is false  
D. A is False but R is true
- Assertion:** The forces of attraction between the particles are maximum in solids, intermediate in liquids and minimum in gases.  
**Reason:** The spaces in between the constituent particles and kinetic energy of the particles are minimum in the case of solids, intermediate in liquids and maximum in gases.
9. (i)What is matter? 2  
(ii)Give any two characteristics properties of particles of matter.
10. Give any two difference between solids and gases. 2
11. The cell theory was proposed by \_\_\_\_\_. 1
- a. Robert Hooke  
b. Antony Van Leuwenhoek  
c. Schleiden and Schwann  
d. Purkinjee
12. What will happen to an animal cell if it is placed in a hypotonic solution? Give reason. 2
13. a. What is the function of nuclear pore? 3  
b. Name the functional segment of DNA.  
c. What is chromatin?



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**GENERAL INSTRUCTIONS:**

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1. Change the speed of 6 m/s into km/h. 1
2. Define velocity. What is the SI unit of velocity? 1
3. What type of motion, uniform or non-uniform, is exhibited by a freely falling body? 1
4. a) Write the formula for acceleration. Give the meaning of each symbol which occurs in it. 2  
b) A train starting from Railway Station attains a speed of 21 m/s in one minute. Find its acceleration.
5. State whether speed is a scalar or a vector quantity. Give reason for your choice. 2
6. Which one of the following has highest density? 1  
(a) Kerosene (b) Water (c) Iron (d) wood
7. When we blow air into the balloon it inflates because 1  
(a) Air particles diffuse into the balloon  
(b) Air particles collide with the walls of the balloon and exert pressure on them.  
(c) Rubber is elastic in nature  
(d) The temperature of the balloon increases.



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  - C. A is true but R is false
  - D. A is False but R is true

**Assertion:** The smell of hot cooked food reaches us in seconds.

**Reason:** Gases are highly compressible and occupy even small volume.

9. Comment upon the following 2
- (i) Rigidity (ii) Diffusion
10. Give reasons 2
- (i) A gas fills completely the vessel in which it is kept.
- (ii) A gas exerts pressure on the walls of the container.
11. What is a cell and who discovered it? 1
12. a) Why plasma membrane is known as the selectively permeable membrane? 2
- b) What is plasma membrane composed of?
13. How does amoeba obtain its food? Define the process. 3





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1. All Questions are compulsory.
2. Draw Diagram wherever necessary
1. Under what conditions can a body travel a certain distance and yet its resultant displacement be zero? 1
2. What is the SI unit of retardation? 1
3. Define the term 'Uniform acceleration'. Give one example of a uniformly accelerated motion. 1
4. What is the difference between speed and velocity? 2
5. Arrange the following speeds in increasing order (keeping the least speed first): 2
  - I. An athlete running with a speed of 10 m/s.
  - II. A bicycle moving with a speed of 200 m/min.
  - III. A scooter moving with a speed of 30 km/h
6. Which one of the following has highest density? 1  
(a) Kerosene (b) Water (c) Iron (d) wood
7. Which statement is false about solid, liquid and gas? 1
  - (a)The solids have closely packed particles and are rigid.
  - (b)The liquid and gases are fluids so that it can flow at any direction.
  - (c)Solids diffuses into another solid more easily
  - (d)Gases are highly compressible and the particle have more freedom to move.

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**Assertion:** The smell of hot cooked food reaches us in seconds.

**Reason:** Gases are highly compressible and occupy even small volume.

9. (i)What is matter? 2  
(ii)Give any two characteristics properties of particles of matter.
10. Give reasons 2
- (a) A gas fills completely the vessel in which it is kept.
  - (b) A gas exerts pressure on the walls of the container.
11. The liquid material in the nucleus is \_\_\_\_\_. 1
- (a) Chromosomes (b) Bacteria (c) Nucleolus (d) Nucleoplasm
12. Do you agree that “A cell is a building unit of an organism” If yes, give reason. 2
13. What will happen to an animal cell if it is placed in a hypertonic solution? Give reason. 3