



# INDIAN SCHOOL MUSCAT

## FIRST PERIODIC TEST

### SCIENCE

CLASS: IX

Sub. Code: 086

Time Allotted: 50 mts.

30.05.2022

Max. Marks: 20

#### GENERAL INSTRUCTIONS:

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

#### Physics

1. What is the SI unit of retardation? 1
2. Define velocity. What is the SI unit of velocity? 1
3. When is body said to have uniform velocity? 1
4. Write any two differences between displacement and distance covered by a body in given time. 2
5. 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

#### Chemistry

6. Choose the correct answer 1  
Tincture of iodine has antiseptic properties. This solution is made by dissolving  
(a) iodine in potassium iodide  
(b) iodine in Vaseline

I iodine in water

(d) iodine in alcohol

7. **State whether the given statement is True (or) False** 1

When the solute is less and solvent is more the solution is said to be diluted.

8. **Fill in the Blanks** 1

Alloy is a -----.

9. **Answer the following questions** 2

(ii) A solution contains 40 gram of common salt in 360 gram of water. Calculate the concentration in term of mass by mass percentage of the solution.

(ii) Define solubility of a solution.

10. Write any two differences between homogeneous mixture and heterogeneous mixture. 2

## **Biology**

11. Who discovered cell? 1

12. Give an example of unicellular organisms. 1

13. Difference between a plasma membrane and cell wall. (two points) 2

14. How do substances like CO<sub>2</sub> and water move in and out of the cell? Explain. 2

**End of the Question Paper**



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#### Physics

1. Change the speed of 36 km/h into m/s. 1
2. What type of motion, uniform or non-uniform, is exhibited by a freely falling body? Give reason for your answer. 1
3. State whether speed is a scalar or a vector quantity. Give reason for your choice. 1
4. A train starting from Railway Station attains a speed of 72 km/h in one minute. Find its acceleration. 2
5. Write any two differences between displacement and distance covered by a body in given time. 2

#### Chemistry

6. Choose the correct answer 1  
In a water-sugar solution  
(a) water is solute and sugar is solvent  
(b) water is solvent and sugar is solute

(c) water is solute and water is also solvent

(d) none of these

7. **State whether the given statement is True (or) False** 1

The amount of the solute present in the saturated solution at a given temperature is called its solubility

8. **Fill in the blanks** 1

When no more solute can be dissolved in a solution at given temperature, it is called an -----  
----- solution

9. **Answer the following questions** 2

- (i) A solution contains 50 ml of alcohol in 950 ml of water. Calculate the concentration in terms of volume by volume percentage of the solution
- (ii) What is meant by concentrated solution?

10. Write any two differences between homogeneous mixture and heterogeneous mixture. 2

**Biology**

11. Differentiate between unicellular and multicellular organisms. 1

12. What would happen if the plasma membrane ruptures or breaks down? 1

13. Write one function of each 1. Cell wall 2. Plasma membrane 2

14. Define osmosis. What will happen if cell contains higher water concentration than the surrounding medium? 2

**End of the Question Paper**



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### Physics

1. Under what conditions can a body travel a certain distance and yet its resultant displacement be zero? 1
2. Change the speed of 20 m/s into km/h. 1
3. Define the term 'acceleration' and also write its SI unit. 1
4. Write any two differences between speed and velocity? 2
5. A motorcyclist starts from rest and reaches a speed of 36 km/h after travelling with uniform acceleration for 3 s. What is his acceleration? 2

### Chemistry

6. **Choose the correct answer** 1

If the amount of solute contained in a solution is less than the saturation level, it is called:

- (a) solution
- (b) saturated solution
- (c) unsaturated solution
- (d) suspension

7. **State whether the given statement is True (or) false** 1
- When the solute is less and solvent is more the solution is said to be diluted
8. **Fill in the blanks** 1
- The particles of a solution are smaller than ----- nanometer in diameter
9. **Answer the following questions** 2
- (i) A solution contains 40 gram of common salt in 360 gram of water. Calculate the concentration in term of mass by mass percentage of the solution.
- (ii) Define saturated solution
10. Write any two differences between homogeneous mixture and heterogeneous mixture. 2

### **Biology**

11. What is a cell? 1
12. Define endocytosis. 1
13. Why the cell is called the structural and functional unit of life? 2
14. Differentiate between plasma membrane and cell wall. (Two points) 2

**End of the Question Paper**