



# INDIAN SCHOOL MUSCAT

## SECOND PERIODIC TEST



### SCIENCE

CLASS: IX

Sub.Code: 086

Time Allotted: 50mts.

19.12.2022

Max .Marks: 20

#### GENERAL INSTRUCTIONS:

1. All Questions are compulsory.
2. Draw Diagram wherever necessary
1. What is the value of gravitational constant G (i) on the earth, and (ii) on the moon? 1
2. As the altitude of a body increases, do the weight and mass both vary? 1
3. What is the acceleration produced in a freely falling body of mass 10 kg? (Neglect air resistance) 1
4. A stone resting on the ground has a gravitational force of 20 N acting on it. What is the weight of the stone? What is its mass? ( $g = 10 \text{ m/s}^2$ ). 2
5. State two applications of universal law of gravitation. 2
6. Find the molecule from the given option. 1  
(a)Cl (b)H<sub>2</sub> (c) SO<sub>4</sub><sup>2-</sup> (d) Na<sup>+</sup>
7. What is ratio by atom in the given molecule of water? 1  
(a)4:1 (b)3:1 (c)1:1 (d)2:1
8. Ionic compound contains \_\_\_\_\_ and \_\_\_\_\_. 1
9. (a)What is a molecule? 2  
(b)Give one example for each type of the-  
(i)Hetero diatomic molecule.

(ii) Hetero polyatomic molecule.

10. (a) Define Valency.

2

(b) Write the chemical formula for the following compounds.

(i) Aluminium Oxide

(ii) Sodium Chloride

11. Name the tissue responsible for movement in our body.

1

12. Mention the location and function of stratified squamous epithelium.

1

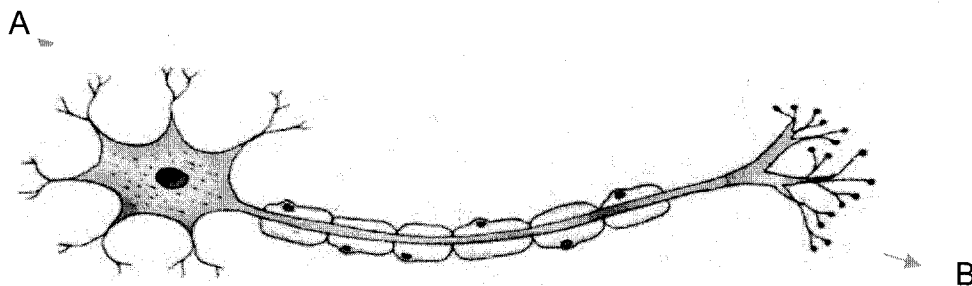
13. Differentiate between skeletal muscles and smooth muscles.

2

14.

2

(i) Observe the diagram given below and label the parts marked **A** and **B**.



(ii) Write one function of the nervous tissue

**\*\*\*END OF THE QUESTION PAPER\*\*\***



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### GENERAL INSTRUCTIONS:

1. All Questions are compulsory.
2. Draw Diagram wherever necessary
1. On what factor/factors does the weight of a body depend? 1
2. A body has a weight of 10 kg on the surface of earth. What will be its weight when taken to the centre of the earth? 1
3. What is the acceleration produced in a freely falling body of mass 10 kg? (Neglect air resistance) 1
4. State two applications of universal law of gravitation. 2
5. How much is the weight of an object on the moon as compared to its weight on the earth? Give reason for your answer. 2
6. Find the molecule from the given option. 1
 

(a) Cl (b) H<sub>2</sub> (c) SO<sub>4</sub><sup>2-</sup> (d) Na<sup>+</sup>
7. Which one is a polyatomic cation? 1
 

(a) SO<sub>4</sub><sup>2-</sup> (b) Cu<sup>2+</sup> (c) NH<sub>4</sub><sup>+</sup> (d) Fe<sup>2+</sup>
8. Ionic compound contains \_\_\_\_\_ and \_\_\_\_\_. 1
9. (a) Define ion and give one example for an ion. 2
 

(b) Define homo diatomic molecule. Give one example.
10. (a) Define Valency. 2
 

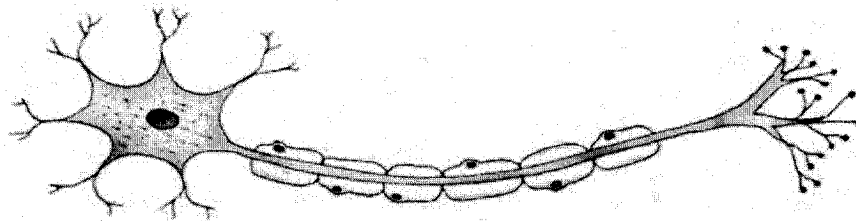
(b) Write the chemical formula for the following compounds.

(i) Aluminium Oxide

(ii) Sodium Chloride

11. Name the muscles responsible for rhythmic contraction and relaxation of heart. 1
12. Where do you find ciliated epithelium in our body? 1
13. Differentiate between skeletal muscles and smooth muscles. 2
14. (i) Observe the diagram given below and label the parts marked **A** and **B**. 2

A



- (ii) Which two tissues work together for the movement of organs in our body?

\*\*\*END OF THE QUESTION PAPER\*\*\*



# INDIAN SCHOOL MUSCAT

## SECOND PERIODIC TEST



### SCIENCE

CLASS: IX

Sub.Code: 086

Time Allotted: 50mts.

19.11.2022

Max .Marks: 20

### GENERAL INSTRUCTIONS:

1. All Questions are compulsory.
2. Draw Diagram wherever necessary
1. What is the acceleration produced in a freely falling body of mass 10 kg? (Neglect air resistance) 1
2. What is the value of gravitational constant G (i) on the earth, and (ii) on the moon? 1
3. As the altitude of a body increases, do the weight and mass both vary? 1
4. How much is the weight of an object on the moon as compared to its weight on the earth? Give reason for your answer. 2
5. State two applications of universal law of gravitation. 2
6. Find which molecule is in the elemental form? 1
 

(a)  $\text{CuCl}_2$  (b)  $\text{Na}_2\text{O}$  (c)  $\text{N}_2$  (d)  $\text{H}_2\text{O}$
7. What is ratio by atom in the given molecule of water? 1
 

(a) 4:1 (b) 3:1 (c) 1:1 (d) 2:1
8. The number of atoms constituting a molecule is known as \_\_\_\_\_ 1
9. (a) What is a molecule? 2
 

(b) Give one example for each type of the-

(i) Hetero diatomic molecule.

(ii) Hetero polyatomic molecule.

10. (a)What is a chemical formula? 2  
(b)Write the chemical formula for Sodium Carbonate and Potassium Nitrate
11. Name the tissue present in the brain, spinal cord and nerves. 1
12. Cuboidal epithelium form the lining of the kidney tubule. What is the function of this epithelium? 1
13. What are contractile proteins? State one salient feature of striated muscle fibre 2
14. i) Where do you find nucleus in a neuron? 2  
ii) State one difference between axon and dendrites of a neuron.

**\*\*\*END OF THE QUESTION PAPER\*\*\***