



INDIAN SCHOOL MUSCAT

FIRST PERIODIC TEST

SCIENCE

CLASS: IX

Sub. Code: 086

Time Allotted: 50 min

27.05.2018

Max. Marks: 20

GENERAL INSTRUCTIONS:

- All Questions are compulsory.
- Draw diagrams if necessary.
- $\pi = 3.14$

PHYSICS

1. Under what condition, the average speed of a moving object is equal to the magnitude of the average velocity. 1
2. Distinguish between speed and velocity. 2
3. Usha swims in a 90m long pool. She covers 180m in one minute by swimming from one end to the other and back along the same straight path. Find the average speed and average velocity of Usha. 2
4. a) Define acceleration of a body. 2
b) Define uniform acceleration.

CHEMISTRY

5. When sugar is dissolved in water, there is no increase in the volume. Which characteristic of matter is illustrated by this observation? 1
6. a) O_2 is a gas. Write its two gaseous properties to justify it. 2
b) The smell of hot sizzling food reaches us even from a considerable distance but to get the smell of cold food we have to go close to it. Give reason.
7. Give the usual name for the following: 2
a) Heat required to change the state of a substance without changing the temperature.
b) The temperature at which a liquid changes into a gas.
c) Two conditions necessary to liquefy gases.
d) Chemical name of dry ice.
8. (a) Arrange the three states of matter in the increasing order of : 2
(i) Rate of diffusion (ii) Force of attraction
(b) What will be the state of water at:
(i) $100^\circ C$ (ii) $300 K$

BIOLOGY

9. If you are provided with some vegetable to cook, generally add salt into the vegetables during cooking process. After adding salt, vegetables releasing water. What mechanism is responsible for this? 1
10. Define endocytosis. 1
11. a) Plant cells and bacterial cells can withstand much greater changes in the surrounding medium than animal cells. How? 2
b) Name the functional unit of DNA that carries genetic information.
12. Differentiate between prokaryotic and eukaryotic cell. Give any two points each. 2

End of the Question Paper