

**ATOMIC ENERGY CENTRAL SCHOOL NO. 3 RAWATB HATA**  
**PERIODIC TEST -I ( 2019-2020)**

**CLASS -IX**

**M.M: 40**

**SUB: SCIENCE**

**Time: 1  $\frac{1}{2}$  Hrs.**

**CHEMISTRY**

1. Name any two Sublimate. (1)
2. What is dry ice? (1)
3. Convert 30°C to Kelvin (1)
4. Give reasons for the following: (2)
  - a) We can get the smell of perfume sitting several metres away.
5. For any substance why does the temperature remain constant during change of state? (2)
6. Define the following : (3)
  - i) Melting Point ii) Boiling Point iii) Latent heat of Vaporisation.
7. Explain the factors affecting evaporation (any four) (4)

**BIOLOGY**

- 1 . What is cell membrane? (1)
2. What is endocytosis? (1)
3. Name the cell organelle called as power house of cell. (1)
4. Define Plasmolysis? (1)
5. Write short note on: (2)
  - i) Osmosis ii) Diffusion
6. Differentiate between Hypotonic, Isotonic and Hypertonic solution with suitable example. (3)
7. a) Draw a labelled diagram of Animal cell or Plant cell. (4)
  - b) Why are Lysosomes called Suicide bags of the cell?

**PHYSICS**

- Q1 Name the quantity measured by the area under velocity –time graph . (1)
- Q2 Define acceleration and write its SI unit . (2)
- Q3 Define uniform circular motion . Why is it an accelerated motion ? (2)
- Q4 A ball is dropped from a height of 19.6 m .If the rate of change of velocity of the ball is 9.8 m/s<sup>2</sup> ,what will be the velocity of ball when it strikes the ground ? How much time will it take to reach the ground? (3)
- Q5 (a) Use graphical method to derive the equation :s =ut +1/2at<sup>2</sup> ;where the symbols have their usual meaning. (3)
- (b) A motorboat starting from rest on a lake accelerates in a straight line at a constant rate of 3m/s<sup>2</sup> for 8s. How far does the boat travel during this time ? (2)