

# KENDRIYA VIDYALAYA SITAPUR (I SHIFT)

PERIODIC TEST - FIRST

CLASS –IX

SUB- SCIENCE

TIME -90 MINUTES

SESSION- 2018-19

MM- 40

NOTE:- NOTE: - All questions are compulsory. Draw suitable diagram where necessary. Solve each section in a separate answer sheet.

## SECTION-A (BIOLOGY)

1. Who discovered nucleus and when? 1
2. Which cell organelle is known as power house of the cell? 1
3. Which organelle is the storage sac of solid liquid materials ? 1
4. Write any two differences between plant and animal cell. 2
5. Write full name of RER & SER. 2
6. What are macronutrients? Give two examples. 2
7. (a) Draw the diagram of a plant cell and label any four parts. 3  
(b) Why is plasma membrane called a selectively permeable membrane? 2

## SECTION-B (CHEMISTRY)

- Q 1 Arrange the following substances in increasing order of forces of attraction between the particles water, sugar, oxygen? [1]
- Q 2. Convert the following temperatures into celsius scale :- [2]
- (i) 293 K (ii) 470 K
- Q 3. Classify each of the following as a homogeneous or heterogeneous mixture :- [2]
- Fresh air , mixture of oil and water , filtered tea , sand in water
- Q4. Write any three differences between Solid ,Liquid and Gas. [3]
- Q 5(A) Explain the following- [2+3]
- (i) Solution (ii) Latent heat of fusion
- (B) Give reason-
- (i) We wear cotton clothes during summer.
- (ii) Water stored in earthen pot becomes cool.
- (iii) We can get the smell of perfume sitting several metres away.

## SECTION-C (PHYSICS)

- 1 Give two example of circular motion. [1]
- 2 write the unit of velocity . [1]
- 3 what does the odometer of an automobile measure? [1]
- 4 write any two equation of motion. [1]
- 5 what is difference between uniform motion and non-uniform motion. [2]
- 6 Draw the graph for stationary or rest object between velocity and time. [2]
  
- 7 A bus starting from the rest moves with a uniform acceleration  $0.1 \text{ m/s}^2$  for 2 min find the speed acquired and the distance travelled. [3]
- 8 An object travels 16 m in 4 sec and then another 16 m in 2 sec. What is the average speed of the object? [2]