

KENDRIYA VIDYALAYA SITAPUR (FIRST SHIFT)

Periodic Test – 1 (Session 2022 – 2023)

Class – IX

Subject – Science

Time – 90 minutes.

M.M. – 40

Note :

- 1) All questions are compulsory.
- 2) There are 20 questions in a paper divided into five sections.
- 3) Section - A contain 10 questions of MCQ based 1 mark each .
Section - B contain 2 questions of case study based 5 marks each.
Section – C contain 4 very short questions 1 mark each.
Section – E contain 2 short questions 3 marks each .
Section – F contain 2 long questions 5 marks each.

Section – A

MULTIPLE CHOICE QUESTIONS

Q.1) The nucleus of cell was discovered by

- (a) Robert Brown
- (b) Robert Hooke
- (c) Purkinje
- (d) Goldstein

Q.2) Proteins are formed in

- (a) Golgi Bodies
- (b) Ribosomes
- (c) Mitochondria
- (d) Plastids

Q.3) Chromosomes are made up of

- (a) DNA
- (b) Protein
- (c) DNA and protein
- (d) RNA

Q.4) Colourless plastids are known as

- (a) Chromoplasts
- (b) Chloroplasts
- (c) Leucoplasts
- (d) Protoplasts

Q.5) During summers, water kept in an earthen pot becomes cooler after some time. Which phenomenon leads to the cooling of water in an earthen pot ?

- (a) Diffusion
- (b) Transpiration
- (c) Osmosis

(d) Evaporation

Q.6) Which of the following will show Tyndall effect ?

(a) Salt solution

(b) Milk

(c) Copper sulphate solution

(d) Sea water

Q.7) In the following which is homogeneous mixture ?

(a) Copper sulphate solution

(b) Dust storm

(c) A suspension of chalk in water

(d) Starch solution

Q.8) In the following which is element ?

(a) Water

(b) Oxygen

(c) Carbon dioxide

(d) Common salt

Q.9) In the following which is compound ?

(a) Silver

(b) Gold

(c) Water

(d) Copper

Q.10) The rate of change of velocity is called

(a) Speed

(b) Acceleration

(c) Distance

(d) Displacement

Section – B

CASE STUDY BASED QUESTIONS

Q.11) **STATES OF MATTER** : Matter around us exist in three different states - solid , liquid and gas. These states of matter arise due to the variation in the characteristics of the particles of matter.

1) With increase in temperature the kinetic energy of the particles :

(a) decreases

(b) increases

(c) remains constant

(d) not confirm

2) The inter particles space is maximum in :

(a) Solid

(b) Liquid

(c) Gas

(d) not confirm

3) The inter particles forces is minimum in :

- (a) Solid
- (b) Liquid
- (c) Gas
- (d) not confirm

4) The inter mixing of particles of two different types of matter on their own is called :

- (a) Sublimation
- (b) Fusion
- (c) Condensation
- (d) Diffusion

Q.12) **MOTION** : If an object travels in a straight line and its velocity increases or decreases by equal amounts in equal intervals of time, then the acceleration of the object is said to be uniform . On the other hand, an object can travel with non-uniform acceleration if its velocity changes at a non-uniform rate.

1) Example of uniformly accelerated motion is :

- (a) A car is moving on a crowded street.
- (b) A person is jogging in a park.
- (c) A free falling body.
- (d) not confirm

2) The correct formula of speed is :

- (a) speed = distance/time
- (b) speed = time/distance
- (c) speed = distance × time
- (d) speed = displacement/time

3) The SI unit of displacement is :

- (a) m/s
- (b) m
- (c) m/s²
- (d) ms

4) The area under the velocity-time graph gives the :

- (a) speed
- (b) acceleration
- (c) distance
- (d) force

Section – C

VERY SHORT ANSWER QUESTIONS

Q.13) Write the full form of LPG.

Q.14) What is a solution ?

Q.15) Why are lysosomes known as suicide bags ?

Q.16) What does the odometer of an automobile measure ?

Section – D

SHORT ANSWER QUESTIONS

Q.17) Define the following terms :

- (a) Fusion
- (b) Sublimation
- (c) Vaporisation

Q.18) A train starting from a railway station and moving with uniform acceleration attains a speed 40 km/h in 10 minutes. Find its acceleration.

Section – E

LONG ANSWER QUESTIONS

Q.19) Classify the following into elements , compounds and mixtures.

Sodium , Soil , Sugar solution , Silver , Calcium carbonate , Tin , Air , Soap , Carbon dioxide and Blood .

Q.20) Draw the labelled diagram of plant cell and animal cell. Also write any two differences between them.