## KENDRIYA VIDYALAYA SITAPUR                    (2019)

TIME-90 MINUTE          PERIODIC TEST-III,   CLASS-9          SUBJECT –SCIENCE          MM-40

S.NAME………………………………….          INVIGILATOR SIGN…………………………………. DATE………………………………

MCQ-(1x6=6)

Q.1 The property to flow is unique to fluids. Which one of the following statements is correct ?

   (a) Only gases behave like fluids                 (b) Gases and liquids behave like fluids.

   (c) Gases and solids behave like fluids.          (d) Only liquids are fluids.

Q.2 Which of the following can be made into crystal

(a) A Bacterium          (b) An Amoeba          (c) A virus          (d) A Sperm

Q.3 A Passenger in moving train tosses a coin which falls behind him . It means that motion of the train is.

(a)accelerated          (b) uniform          (c) retarded          (d) along circular tracks

Q.4 What is the momentum of an object of mass m, moving with velocity v ?

(a) $(mv)^2$          (b) $mv^2$          (c)$1/2mv^2$          (d) mv

Q.5 The gravitational forces between  two object is F . If masses of both object  are halved without changing distance between them, then the gravitational force would become.

(a) F/4          (b)F/2          (c)F          (d)2F

Q.6 Elephantiasis is caused by

(a)  Wuchereria          (b) Pinworm          (c)Planarians          (d)Liver fluke

Q.7 Fill in blanks (1x2=2)

   (a) pitch of sound depends on ……………

    (b)Pigeon pea is a good source of …………..

Q.8 A girl rides a bicycle with a speed of 10 km/h 2 h and 15 km/h for next 3 h Find the distance moved by her and average speed.                                        2

Q.9 Draw a labelled diagram to show the difference between the structures of any two types of muscles fibres.                                        2

Q.10 Calculate the number of moles in 34g of  $NH_3$                                        2

{Given atomic mass of N=14 u;  H= 1 u}.

Q.11 Give the importance of taxonomy .                                                            2

Q.12 Differentiate between mechanical waves and electromagnetic waves.             2

Q.13 Name the different  living and non-living parts of a cell or cell organelles.        3

Q.14 Why copper sulphate solution in water does not show tyndall effect but mixture of water and milk shows.                                                                                                   3

 Q.15 Define infectious   agent. Classify diseases on the basis of infectious   agent.        3

Q.16 A force of 10 acts on a body of 2kg for 3 second . Find the kinetic energy acquired  by the body in 3 second.                                                                                                      3

Q.17  Using second law of motion, derive the relation between force and acceleration . A bullet of 10 g strikes a sand- bag at a 103 ms-1 and gets embedded after travelling 5cm . Calculate                5

(1) the resistive force exerted by the sand on the bullet.

(2) the time taken by the bullet to come to rest.

OR

Q, Complete the following table

| Example | Tissue | Type of tissue | Cell (living/dead) | Main function |
|---------|--------|----------------|--------------------|---------------|
| 1.Husk of coconut | | | | |
| 2.In leaf stalk below the epidermis | | | | |

Q.18  (a)  What are the postulates of Bohr's model of  an atom ?                              5

     (b)   Show diagrammatically the electrons  distribution in Sodium, Lithium and Aluminium atoms

OR

Q. Define genetically  modified crops. How are they made ? Explain the significance of genetically modified crops with suitable example.