

9TH STD. MID TERM EXAMINATION SEPT - 2019

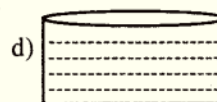
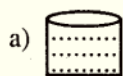
Time : 3:00 Hours

SUBJECT : SCIENCE

Max. Marks : 90

I For each incomplete Statement four alternatives are given, choose the correct answer and fill in the blanks. 1×8=8

1) In which of the following beakers the rate of evaporation increases.



2) A change of state directly from gas to solid.

- a) Condensation b) Sublimation c) Solidification d) Vaporization

3) Which of the following does not show tyndal effect?

- a) Milk b) Salt solution c) Blood d) Smoke

4) the technique used to produce milk powder from milk.

- a) Solidification b) Sublimation c) Evaporation d) distillation

5) The SI unit of accelation is

- a) ms^{-1} b) ms^{-2} c) m d) Kmh^{-1}

6) Which among these is an Italian bee variety that has been brought to India to increase the yield of honey.

- a) Apis florae b) Apis Cerna indica c) Apis dorsata d) Apis mellifera

7) The other name of Newton's first law of motion.

- a) law of adjustment b) law of momentum c) law of inertia d) law of conservation of mass

8) $W=mxg$ in this equation 'g' represents.

- a) workdone b) acceleration due to gravity c) mass d) pressure

II Answer the following questions :

1×8=8

9) How does the water kept in an earthen pot become cool during summer?

10) Solid Carbon-di-oxide is also known as dryice. give scientific reasons.

11) List any one application of chromatography.

12) How does Muscles helps in movements?

13) Give any two suggestions to reduce the storage grain losses.

14) Which nutrient enriches by the use of green manure.

15) Why lysosomes are called as suicide bag of the cell?

16) Under what conditions is the magnitude of average velocity of an object equal to its average speed?

III Answer the following questions:-

2×9=18

17) Draw a diagram that shows sublimation of ammonium chloride.

18) Draw a diagram that shows the seperation of immiscible liquids.

19) Differentiate between homogeneous and heterogeneous mixtures with examples.

OR

Write any two properties of colloid.

20) Draw a diagram of Neuron and label the following parts. a) Cell body b) Nerve endings.

21) Write any two features of Cardiac muscles.

OR

Write any two functions of epidermal tissue in plants?

22) What is the utility of tissues in multi-cellular organisms? explain briefly.

23) Genetic manipulation is a modern technique in agricultural practices. It is very useful to our formers. Justify.

OR

Composite fish culture is very profitable. Justify.

24) A motor boat starting from rest on a lake accelerates in a straight line at a constant rate of 3 ms^{-2} for 8 sec. How far does the boat travel during this time?

25) A hockey ball of mass 200g travelling at 10ms^{-1} is struck by a hockey stick so as to return it along its original path with a velocity at 5 ms^{-1} . Calculate the change of momentum occurred in the motion of the hockey ball by the force applied by the hockey stick.

IV Answer the following questions:

3×5=15

26) Write any three charecteristics of particles of matter.

27) Name the technique used to seperate the following.

- a) butter from curd b) Salt from sea water c) Camphor from salt.

(P.T.O.)

28) Animal husbandry practices benefits the farmers to improve their economy. Justify the above statement.

OR

Now a days Organic farming is more popular. Justify the above statement.

29) A car accelerates Uniformly from 5 m/s to 10 m/s in 5 sec. Calculate the acceleration and the distance covered by the car in that time.

30) Give reasons for the following.

- a) We fall in the forward direction when a moving bus brackes to a stop.
- b) A carpet is beaten with a stick, dust comes out of it.
- c) If the velocity of exhaustible gases increased in a rocket, the velocity of rocket increases.

OR

An automobile vehicle has a mass of 1500 kg. What must be the force between the vehicle and road if the vehicle is to be stopped with a negetive acceleration of 1.7 m/s^2 ?

V Answer the following questions:

4×4=16

31) Define the following

- a) Sublimation
- b) Solidification
- c) Evaporation
- d) Density

32) Draw Animal Cell and label the following.

- a) Nucleus
- b) Mitochondria

33) A. Illustrate law of Inertia with an example.

B. With an example state Newton's third law of Motion.

34) Write any 4 importance of the Universal law of Gravitation.

OR

A. What are the differences between the mass of an object and its weight?

B. What do you mean by free fall? Give one example.

VI answer the following:

5×1=5

35) Name the simple permanent tissues present in plants and explain briefly the structure and the functions of them.

PART -B (Practicles)

I Four alternatives are given to each incomplete statement. choose the right answer and fill in the blanks.

1×4=4

1) A de-shelled egg is placed in a concentrated Salt solution for 5 minutes.

- a) egg shrinks
- b) egg enlarges
- c) No changes are seen
- d) egg will dissolve in it.

2) A student obseves a slide of T.S. of leaf under a microscope. He notices small pores, one of the important function of these pores is Transpiration. In which tissue does these pores are located.

- a) Xylem
- b) Phloem
- c) Epidermis
- d) parenchyma

3) Which of the following is not true for displacement?

- a) it can be Zero
- b) It cannot be zero
- c) it is a vector quantity
- d) It is always greater that the distance covered.

4) If a stone is thrown upwards it reaches a certain height and then starts falling down. This is due to a force. With related to that force. Which one of the following statement is not true.

- a) It is Gravitational force
- b) It is denoted by 'G'
- c) The value of it is 9.8 ms^{-2}
- d) The unit of it is ms^{-2}

II Answer the following questions :

1×4=4

5) A diver is able to cut through water in a swimming pool. Which property of matter does this observation show?

6) How Adipose tissue acts as an insulator?

7) What can you say about the motion of an object if its speed time graph is a straight line parallel to the time axis?

8) A forward force of the bullet and recoiling of the gun is an example for which law of motion.

III Answer the following questions:

2×4=8

9) What type of clothes should we wear in summer. Give suitable reasons for your Answer.

10) Put some dried raisins in water and leave them for some time. Then place them into concentrated salt solution. What will be the observation in each case.

11) Distinguish between speed and velocity.

12) What happens to the force between two objects, if

- a) the mass of one object is doubled?
- b) the masses of both objects are doubled?

IV Answer the following:

1×4=4

13) Draw a diagram of separation of two miscible liquids by distillation and label the following.

- a) water condenser
- b) Distillation flask