Std: VII

Date : 24/09/24

Marks: 80

Time: 2 Hrs

Question 1

A) Multiple Choice Question [5]

1. A movement of football during a game is _____ motion.
   a) random
   b) vibratory
   c) circular
   d) rotatory

2. An example of Scalar quantity is _____.
   a) force
   b) weight
   c) mass
   d) velocity

3. Blood is made up of a straw coloured fluid matrix
   a) leucocytes
   b) erythrocytes
   c) platelets
   d) plasma

4. A nutrition in which an organism feeds on the dead remains of other organisms.
   a) symbiotic
   b) parasitic
   c) heterotrophic
   d) saprophytic

5. The inter-particle space is minimum in
   a) wood
   b) milk
   c) water
   d) air

B) Name the following [5]

1. In plant small openings through which gas exchange takes place
2. A homogeneous mixture of a metal with another metal or non metal
3. A yellow fibrous tissue which connects one bone to another at the joint.
4. SI unit of volume is _____
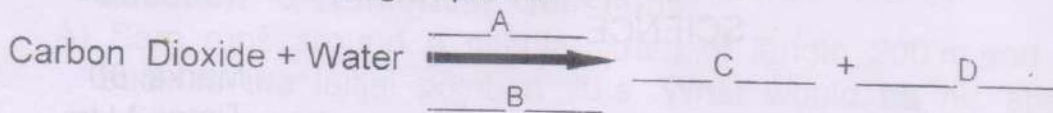5. Chemical used for starch test

C) Match the column. [5]

A	B
a. molecule	i) velocity
b. sandwich	ii) insectivorous plant
c. speed with direction	iii) smallest unit of compound
d. Venus Flytrap	iv) interstitial fluid
e. lymph	v) heterogeneous mixture
	vi) fundamental quantity

D) Identify and name the following element from symbol [3]
   1. Au   2. Na   3. Ca
E) Complete the following equation [2]

Carbon Dioxide + Water $\xrightarrow[\quad B \quad]{\quad A \quad}$ ___C___ + ___D___
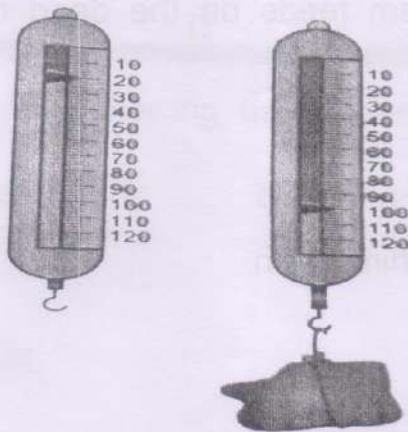
Question 2

A) State true or false . If false correct the underline word. [5]
   1. Bone cells are called <u>chondrocytes</u>.
   2. The rate of photosynthesis <u>decreases</u> as the intensity of light increases.
   3. Gas has <u>strong</u> intermolecular forces of attraction.
   4. Amount of surface covered by a closed shape is called <u>volume.</u>
   5. The constituents are combined in any ratio to form <u>mixture.</u>
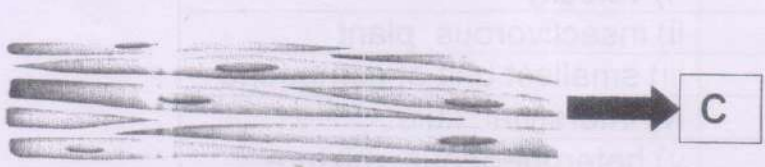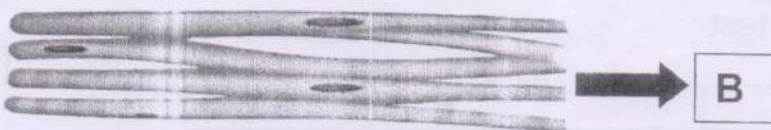
B) Find odd one out. [5]
   1. water , light , heterotrophs , temperature
   2. Squamous , Areolar , Ciliated , Columnar
   3. sublimation , evaporation , emulsion , distillation
   4. area , volume , speed , time
   5. oxygen , salt , iodine , hydrogen

C) Name the following instrument shown in the below figure. State for what purpose it is used. [2]
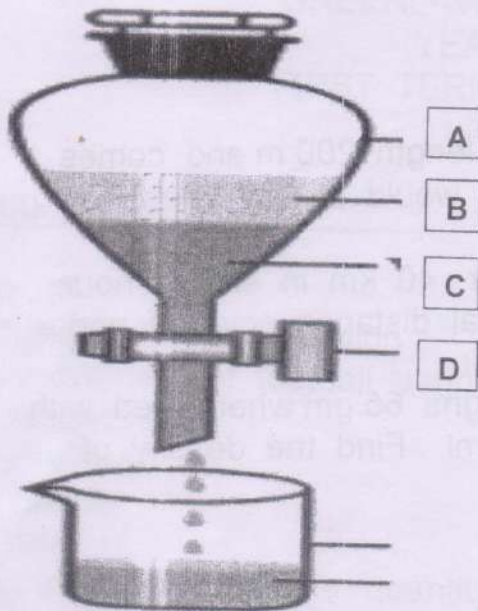

D) Identify and name the following muscular tissues [3]

E) i) Label the below diagram [5]

ii) Name the instrument shown by label A. Write the purpose of the same.

Question 3
A) Define the following terms. [5]
   1. Chlorophyll
   2. Derived Quantities
   3. Autotrophic nutrition
   4. Homogeneous mixture
   5. Element

B) Write the name of following tissues of plants / animals which are
   present at the below location. [5]
   1. At the tips of roots and shoots
   2. Present under the human skin
   3. Present along the walls of the salivary glands
   4. End of bones or between vertebrae or around trachea
   5. At the base of node or base of leaf or at internodes

Question 4
A) Differentiate between the following [5]
   1. Aerobic and Anaerobic respiration(w.r.t. oxygen gas)   1
   2. mass and weight (w.r.t. definition)   1
   3. Liquid – Gas (w.r.t volume)   1
   4. photosynthesis and respiration (w.r.t. gases used and release) 1
   5. rectilinear motion – curvilinear motion (w.r.t. definition) 1

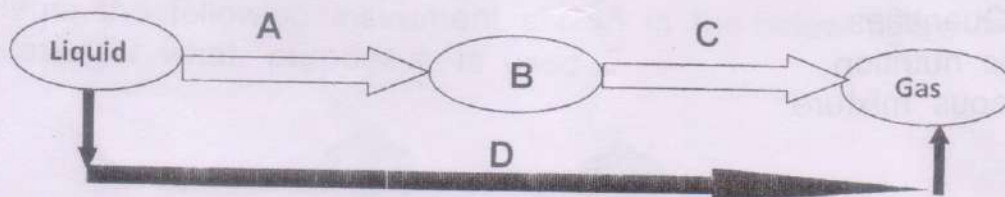B) Give reason for the following [5]
   1. Milk is a mixture.
   2. Permanent tissues do not divide.
   3. Bones are strong and rigid.
   4. Solder wire is an alloy.
   5. The weight of a person on Jupiter is 2.5 times as that on
      the surface of earth.

Question 5 Numerical Questions

A) Sam runs around a circular tract of length 200 m and comes back to the initial point in 20 s. What would be his speed and velocity ? [2]

B) Ben is travelling 35km in the first hour, 40 km in second hour and 30 km in third hour. Calculate total distance covered and average speed of the vehicle in km/ hr. [3]

C) An empty bottle weighs 40 gm. It weighs 65 gm when filled with juice. If the volume of the bottle is 50ml. Find the density of juice in gm/cm³ and in kg/m³. [3]

Question 6

A) Answer the following.

1. Write any two characteristics of compound. [2]
2. Name two motions made by an Earth. [2]
3. Write any two significance of photosynthesis. [2]
4. Name two main elements of xylem and state function of xylem [2]
5. Draw the below diagram with proper labelling for A ,B,C,D [2]

6. Classify each of the following as suspension, emulsion, solution, alloy. [2]
   a) mud with water   b) Ornamental gold
   c) refined oil and water   d) coffee