

Section – A (Attempt all questions)

I) Fill in the blanks:-

- 1) The gaseous envelope surrounding the earth is called _____.
- 2) The tyres of vehicles designed to carry heavy load are _____ as compared to those of cycles and bikes.
- 3) _____ is defined as the ratio of the mass of a body to its volume.
- 4) _____ is a process in which a substance changes from a gas to a liquid.
- 5) _____ is a process in which a substance changes directly from a gas to a solid without going through the liquid.
- 6) The space occupied by the container is called its _____.
- 7) SI unit of work is _____.
- 8) When the pendulum oscillates it has _____ at the extreme positions and _____ at the mean positions.

II) True / False :-

- 1) In steering wheel, the perpendicular distance from the axis of rotation is the radius of wheel.
- 2) Less force is needed when applied at a farther distance from the pivoted point.
- 3) The density of a piece of gold will change by changing its size or shape.
- 4) When a body is immersed in a liquid, the buoyant force experienced by the body is equal to the weight of the liquid displaced by it.
- 5) Evaporation of a liquid takes place at all temperatures.

- 6) Density = Mass \div volume.
 7) Perpendicular force acting to the surface is called thrust..
 8) The rate of doing work is called energy.

III) Multiple choice questions:-

4

- 1) The unit of thrust is
 a) kg f b) kg c) g d) m/s
- 2) The pressure and thrust are related as
 a) Pressure = Thrust b) Pressure = Thrust x Area
 c) Pressure = Thrust / Area d) Pressure = Area / Thrust
- 3) Nose bleeding may occur at a high altitude because
 a) The atmospheric pressure decreases
 b) The oxygen content of atmosphere decrease
 c) The atmospheric pressure increases
 d) There are strong air currents at the high altitudes
- 4) Density depends upon which two factor.
 a) Thermal and volume b) Pressure and volume
 c) Temperature and pressure d) None of these
- 5) The base of a ship is made _____ & hollow.
 a) Low b) Small c) Heavy d) Light
- 6) Boiling takes place from the
 a) surface of liquid b) throughout the liquid
 c) mid- portion of the liquid d) bottom of liquid
- 7) Inter molecular space is maximum in _____ less in _____ & least in _____.
 a) liquids, gases, solids b) gases, liquids, solids
 c) solids, liquids gases d) gases, solids, liquids
- 8) Find out the odd one:
 a) Ammonium chloride b) Dry ice
 c) Sodium chloride d) Camphor

IV) Match the Following:-**3**

Column A	Column B
1. Ice crystal	a. Inverted U- shaped tube
2. International load line	b. Plimsoll line
3. Siphon	c. Experiment of atmospheric pressure
4. Power	d. Frost
5. Stretched bow	e. Rate of doing work
6. Otto von Guericke	f. Potential energy

Section B. Answers the following questions (Attempt any 4)

- Q1) a) What are the assumptions of the kinetic energy of matter ? 2.5
- b) Boats and ships are floating objects. Explain. 2.5
- Q2) a) A piece of zinc of mass 438.6 g has a volume of 86 cm³ cube. Calculate the density of zinc. 2.5
- b) What is atmospheric pressure? Explain it by giving one example. 2.5
- Q3) a) Explain different types of work by giving examples ? 2.5
- b) When a ball is thrown vertically upwards, its velocity goes on decreasing. Write the change in kinetic energy when its velocity becomes zero. 2.5

Q4) a) On the basis of kinetic theory of matter, explain: Why the liquids have a definite volume and no definite shape? 2.5

b) When does a body: (a) float in a liquid?, (b) sink in a liquid
2.5

Q5) a) The density of gold is 19.3 g per cm cube. What is the mass of a bar of gold that measures 12 cm x 6 cm x 2 cm? 2.5

b) What is the turning effect of force? Explain it by giving two examples. 2.5

Q6) a) Distinguish between kinetic energy and potential energy? 2.5

b) State the law of conservation of energy by giving suitable examples. 2.5

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