

MCQ QUESTION CLASS-9

CHEMISTRY CHAPTER 1

Question- 1- According to early Indian philosopher, matter is made up of air, earth

- (a) - fire**
- (b) - sky**
- (c) - water**
- (d) - all of the above**

Answer - (c) - water

Question - 2 - Solid have:

- (a) - definite volume and definite shape**
- (b) - definite volume and no definite shape**
- (c) - no definite volume and no definite shape**
- (d) - none of the above**

Answer - (c) - no definite volume and no definite shape

Question - 3 - Gases are :

- (a) - not compressible**

(b) - slightly compressible

(c) - highly compressible

(d) - not certain

Answer - (c) - highly compressible

Question - 4 - Inter molecular space is maximum in :

(a) - solids

(b) - liquids

(c) - gases

(d) - all of these

Answer - (d) - all of these

Question - 5 - Fluids are :

(a) - solids and liquids

(b) - liquids and gases

(c) - gases and solids

(d) - all of these

Answer - (c) - gases and solids

Question - 6 - Particles of matter :

(a) - have forces of attraction between them

(b) - are very - very tiny and move continuously

(c) - have space between them

(d) - all of these

Answer - (a) - have forces of attraction between them

Question - 7 - Changing of a solid into liquid is called

(a) - sublimation

(b) - vaporization

(c)- condensation

(d) - fusion

Answer - (b) - vaporization

Question - 8 - Changing of a liquid to solid state, is called :

(a) - sublimation

(b) - vaporization

(c) - condensation

(d) - fusion

Answer - (c) - condensation

Question - 9 - The example of sublime substance is :

(a) - naphthalene

(b) - ammonium chloride

(c) - acetone

(d) - all of these

Answer - (a) - naphthalene

Question - 10 - Dry ice is :

(a) - ice without water

(b) - ice high temperature

(c) - solid carbon monoxide

(d) - ice is solid

Answer - (c) solid carbon dioxide

Question - 11 - Ice of 0°C causes more cooling effect than water of same temperature

(a) - Kinetic energy of ice is higher than water

(b) - ice takes latent heat of fusion

(c) - ice is solid

(d) - both will produce same cooling effect

Answer - (b) - ice takes latent heat of fusion

Question - 12 - In melting process of a solid :

(a) - temperature increases slowly

(b) - temperature decrease slowly

(c) - temperature remains constant

(d) - first decrease then increases

Answer - (c) - temperature remains constant

Question - 13 - Intermolecular force is minimum in

(a) - solids

(b) - liquids

(c) - gases

(d) - none of these

Answer - (c) - gases

Question - 14 - The condition that will increase the rate of evaporation of water is :

- (a) - adding common salt to the water**
- (b) - increasing the temperature of water**
- (c) - decreasing the temperature of water**
- (d) - decreasing the exposed surface area of water**

Answer - (b) - increasing the temperature of water

Question - 15 - A few substances are arranged in the increasing order of forces of attraction between their particles. Which one of the following represents the correct sequence of arrangement ?

- (a) - air, water, common salt**
- (b) - common salt, water, air**
- (c) - common salt, air, water**
- (d) - water, air, common salt**

Answer - (a) - air, water, common salt

Question 16 - Fluids have the unique property to flow. The correct statement is :

- (a) - only gases behave like fluids**
- (b) - liquids and solids behave like fluids**
- (c) - gases and liquids behave like fluids**
- (d) - only liquids behave like fluids**

Answer - (c) - gases and liquids behave like fluids

Question - 17 - In which of the following, the distance between gas molecules will increase ?

- (a) - some gas is leaked out of the container without changing the volume of container**
- (b) - some gas is added to the container without changing its volume**
- (c) - increasing pressure on the gas contained in a closed vessel**
- (d) - increasing the volume of the container**

Answer - (d) - increasing the volume of the container

Question - 18 - while determining the boiling point of water, the teacher suggested to add some pumice stone pieces to the hard glass test tube containing water. This was done to :

- (a) - avoid bumping**
- (b) - avoid melting of hard glass test tube**
- (c) - prevent unnecessary loss of heat energy**
- (d) - none of the above**

Answer - (a) - avoid bumping

Question - 19 - Liquids have :

- (a) - definite volume and definite shape**
- (b) - definite volume and no definite shape**
- (c) - no definite volume and no definite**
- (d) - none of the above**

Answer - (b) - definite volume and no definite shape

Question - 21 - gases have :

- (a) - definite volume and definite shape**

(b) - definite volume and no definite shape

(c) - no definite volume and no definite shape

(d) - none of the above

Answer - (c) - no definite volume and definite shape

Question - 22 - Boiling point of a substance is below the room temperature, at room temperature, it

(a) - solid

(b) - liquid

(c) - gas

(d) - all of these

Answer - (c) - gas

Question - 23 - Inter- molecular space is minimum in:

(a) - solids

(b) - liquids

(c) - gases

(d) - all of these

Answer - (a) - solids

Question - 24 - Which is not a matter

(a) - sugar

(b) - bread

(c) - cold

(d) - LPG

Answer - (c) - cold

Question - 25 - The boiling point of water is :

(a) - 273 k

(b) - 100 k

(c) - 0°C

(d) - 373 k

Answer - 373 k

Question - 26 - Changing liquid to gaseous state is called :

(a) - sublimation

(b) - vaporization

(c) - condensation

(d) - fusion

Answer - (b) vaporization

Question - 27 - Changing of solids into gaseous state vice versa is called :

(a) - sublimation

(b) - vaporization

(c) - condensation

(d) - fusion

Answer - (a) sublimation

Question - 28 - Evaporation is the process of a liquid changing into vapor

(a) - at its boiling point

(b) - below the boiling the point

(c) - at 273 k

(d) - at 373 k

Answer - (b) - below the boiling the point

Question - 29 - For liquefaction Of air or gas :

(a) - temperature should be low and high pressure

(b) - temperature should be high and low pressure

(c) - temperature and pressure both should be high

(d) - temperature and pressure both should be low

Answer - (a) - temperature should be low and high pressure

Question - 30 - Room temperature (25°C) will be equal to :

(a) - 248 k

(b) - 298 k

(c) - 343 k

(d) - 398 k

Answer - (b) - 298 k

Question - 31 - Rate of evaporation will be decreased if :

(a) - surface area is increased

(b) - temperature is increased

(c) - humidity is increased

(d) - increase in wind speed

Answer - (c) - humidity is increased

Question - 32 - The boiling points of three liquids A, B and C are 47°C and 127°C respectively. In Kelvin scale the correct sequence of temperature will be :

(a) - 310K, 343K, 400K

(b) - 320K, 343K, 410K

(c) - 320K, 343K, 400K

(d) - 310K, 333K, 400K

Answer - (c) - 320K, 343K, 400K

Question -33 - Four students A, B, C and D visited a natural gas compressing unit and observed the specific condition of temperature and pressure of the liquefaction of natural gas. They told the following statements about the conditions required for the liquefaction of gas. Which statement is correct ?

(a) - temperature and pressure should be low

(b) - temperature and pressure should be high

(c) - temperature should be high and pressure should be low

(d) - temperature should be low and pressure should be high

Answer - (d) - temperature should be low and pressure should be high

Question - 34 - In villages people use to keep water in earthen pots during summer and water becomes cool due to:

(a) - osmosis

(b) - evaporation

(c) - freezing

(d) - diffusion

Answer - (b)- evaporation

Question - 35 - Which one of the following set of phenomenon will increase on increasing temperature :

(a) - expansion of gases, diffusion, evaporation

(b) - evaporation, solubility, compression of gases

(c) - compression of gases, solubility, diffusion, evaporation

(d) - diffusion, solubility, evaporation, compression of gases

Answer - (a) - expansion of gases, diffusion, evaporation

Question - 36 - A student takes same water in a beaker and heat it over a flame for determining its boiling point. He keeps on taking its temperature reading. He observes that the temperature of the water :

(a) - keeps on increasing regularly

(b) - keeps on increasing irregularly

(c) - first increase slowly, then decreases rapidly and eventually becomes constant

(d) - first increases gradually and then becomes constant

Answer - (d) - first increases gradually and then becomes constant

Question - 37 - For determining the melting point of ice, the thermometer should be kept

(a) - with its bulb in the ice cubes

(b) - in contact with the inner wall of the beaker

(c) - a little above the ice cubes

(d) - in touch with the beaker from outside

Answer - (a) - with its bulb in the ice cubes

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