

Class 9 (2020-21)

Subject- Chemistry

Assignment-5

Chapter-1 : Matter In Our Surroundings

Multiple Choice Questions (MCQs)

- Seema visited a Natural Gas Compressing Unit and found that the gas can be liquefied under specific conditions of temperature and pressure. While sharing her experience with friends she got confused. Help her to identify the correct set of conditions.
a)Low temperature, low pressure b)High temperature, low pressure
c) Low temperature, high pressure d) High temperature, high pressure
- 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 solids behave like fluids
c)Gases and liquids behave like fluids d)Only liquids are fluids
- During summer, water kept in an earthen pot becomes cool because of the phenomenon of
a)diffusion b)transpiration c)osmosis d)evaporation
- CO₂ can be easily liquified and even solidified because
(a) It has weak forces of attraction
(b) It has comparatively more force of attraction than other gases
(c) It has more intermolecular space
(d) It is present in atmosphere.
- Which of the following has highest kinetic energy?
(a) Particles of ice at 0 °C (b) Particles of water at 0 °C
(c) Particles of water at 100 °C (d) Particles of steam at 100 °C
- Bose-Einstein Condensate have
(a) Very low kinetic energy (b) Low kinetic energy
(c) High kinetic energy (d) Highest kinetic energy.
- Which of the following is most suitable for summer?

- (a) Cotton (b) Nylon (c) Polyester (d) Silk.
8. The colour of vapours formed on sublimation of iodine solid is
(a) Purple (violet) (b) Colourless (c) Yellow (d) Orange
9. Under which of the following conditions we can boil water at room temperature?
(a) At low pressure (b) At high pressure
(c) At very high pressure (d) At atmospheric pressure
10. Which of the following does not affect rate of evaporation?
(a) Wind speed (b) Surface area (c) Temperature (d) Insoluble heavy impurities
11. Kinetic energy of molecules is directly proportional to
(a) Temperature (b) Pressure (c) Both (a) and (b) (d) Atmospheric pressure
12. The liquid which has the highest rate of evaporation is:
(a) Petrol (b) Nail- polish remover (c) Water (d) Alcohol
13. When we put some crystals of potassium permanganate in a beaker containing water, we observe that after sometime whole water has turned pink. This is due to:
(a) Boiling (b) Melting of potassium permanganate crystals
(c) Sublimation of crystals (d) Diffusion
14. The state of matter which consists of super energetic particles in the form of ionized gases is called:
(a) Gaseous state (b) Liquid state (c) Bose- Einstein condensate (d) Plasma state
15. The force that binds the particles of matter together is known as:
(a) Intermolecular space (b) Bond (c) Intermolecular force (d) Nuclear force
16. The change of a liquid into vapour is called:
(a) Vaporization (b) Solidification (c) Sublimation (d) None of these

Project Work (Activity)

Compare the compressibility factor of the three different states of matter with the help of an activity.