
STATES OF MATTER & CHANGES IN STATES OF MATTER

- Statement I : Solids cannot be compressed
Statement II : This is due to compact arrangement of molecules
A) Both statements I & II are correct B) Both statements I & II are false
C) Statement I is true, II is false D) Statement II is true, I is false
- Which state of matter spreads itself thinner & thinner until it fills the entire volume of the container irrespective of its size.
A) Liquid B) Solid C) Gas D) None
- Which of the following substances can sublime
A) Camphor B) Naphthalene C) NH_4Cl D) All of these
- The temperature at which the change from liquid to vapour is observed in water is
A) 100°C B) 90°C C) 95°C D) 0°C
- What happens when a solid melts?
A) Its molecules move farther apart
B) The molecules move closer together
C) The movement of its molecules decreases
D) The temperature decreases although heat is added
- Which of the following is a property of a solid
A) Solids are less rigid B) Solids have no rigidity
C) Solids are highly rigid D) Solids are sometimes rigid
- Solids vapourise without melting into liquid this process is involved in
A) Sublimation B) Evaporation C) Condensation D) Liquifaction
- Which of the following statements about water are correct?
A) Water has a fixed volume B) Water takes the shape of its container
C) Water can be compressed D) A & B
- Which of the following has a regular repeated molecular pattern in three dimensional space
A) Solids & liquids B) Liquids & gases C) Solids D) Gases
- The property of compressibility is:
A) Maximum in solids B) Least in solids
C) Maximum in liquids D) Least in gases
- The solids cannot be compressed because:
A) The inter particle attraction forces are very weak

- B) The movement of the constituent particles are not restricted
 C) The constituent particles are closely packed
 D) None of the above
12. What happens to a substance when the space between its particles is decreased?
 A) The volume of the substance is increased
 B) The volume of the substance is decreased
 C) The mass of the substance is increased
 D) The mass of the substance is decreased
13. The decreasing order of densities of solids, liquids & gases for a given mass is
 A) Solids>gases>liquids B) Gases>solids>liquids
 C) Liquids>gases>solids D) solids>liquids>gases
14. What happens when a solid melts?
 A) Its molecules move farther apart B) Its molecules move closer together
 C) The movement of its molecules decrease
 D) the temperature decreases although heat is added
15. Which of the following will diffuse faster than the others?
 A) Water B) Petrol C) Perfume D) Milk
16. Statement I : Gases do not have free surfaces
 Statement II : Molecules of a gas move randomly in all directions.
 A) Both statements are true B) Both statements are false
 C) Statement I is true, II is false D) Statement II is true, I is false
17. Arrange in the increasing order of inter molecular space and force indicated for solids, liquids & gases:
- | (i) | (ii) |
|---------------------------|------------------------|
| A) Solids, liquids, gases | gases, liquids, solids |
| B) Solids, liquids, gases | solids, gases, liquids |
| C) Gases, liquids, solids | solids, liquids, gases |
| D) solids, gases, liquids | gases, solids, liquids |
18. When a spoon full of sugar is dissolved in 100mL water, the volume of water
 A) Becomes double B) Does not change C) Decreases D) Increases
19. Choose the correct statement
 A) Molecules attract each other with a force
 B) The space between the molecules is called inter molecular space.
 C) The greater the intermolecular force the closer will be the molecules to each other
 D) All the above
20. Name the state of matter which has least density and no free surfaces is
 A) Solid B) Liquid C) Gas D) All the above