

11. Hydrogen bonding is involved in

- A. Solubility
B. Cleansing action of detergents
C. Biological molecules
D. All

Answer: Option D

12. Actually the vapour pressure on the surface of liquid in the flask is equal to

- A. ρh
B. $P_a - \rho h$
C. $P_a + \rho h$
D. $P_t = P_a - \rho h$

Answer: Option c

13. Forces of attraction which may be present between all kinds of atoms and molecules are

- A. intramolecular
B. intermolecular
C. van der Waal
D. Dipole-induced dipole

Answer: Option c

14. The density of water may be

- A. Equal to that of ice
B. Greater than that of ice
C. Less than that of ice
D. All are possible

Answer: Option B

15. The quantity of heat required to convert one mole of liquid into its vapours at its boiling point is called molar heat of

- A. vaporization
B. evaporation
C. crystallization
D. sublimation

Answer: Option A

16. Steam causes more severe burn than the boiling water because it possesses.

- A. Latent heat of fusion B. Latent heat of vaporization
C. Latent heat of sublimation D. All of the above

Answer: Option B

17. Water has maximum density at

- A. 0°C B. 2°C
C. 4°C D. 100°C

Answer: Option C

18. The conversion of vapours back into their liquid state is called

- A. crystallization B. evaporation
C. vaporization D. condensation

Answer: Option D

19. Formation of vapours from the surface of a liquid is called

- A. vapourization B. evaporation
C. condensation D. cracking

Answer: Option B

20. When water freezes at 0°C its density decreases due to

- A. Change of bond angles B. Cubic structure of ice
C. Empty space present in the structure of ice D. Change of bond length

Answer: Option C