**1.** **Alum is used**

(a) as an analgesic **(b) in the purification of water**

(c) as a fertilizer (d) as a disinfectant

2. Which heavy metal is found in modern tanning industries, which is toxic?  
[A] Nickel [B] zinc **[C] Chromium** [D] lead

3. lowering the atmospheric pressure on a liquid

a. increases the boiling point of the liquid

**b. lowers the boiling point of the liquid**

c. does not affect the boiling point of the liquid

d. increases the time required for it to boil

4. The solubility of a gas in liquid increases with

a. increase in temperature

b. reduction in gas pressure

c**. decrease in temperature and increase in gas pressure**

d. amount of liquid taken

5. Cloud is a colloidal dispersion of

a. air in a dispersion medium of water

b. fog in a dispersion medium of water

c. mist in a dispersion medium of air

d. **water drops in a dispersion medium of air**

6. Pick out the positively charged sol

**a. Haemoglobin** b. CdS c. Congo red d. Gold sol

7. The scattering of light by the colloidal particles is called

a. Brownian movement b. Electrophoresis

**c. Tyndall effect** d. Electro-osmosis

8. Which of the following is not a colloid?

**a. Chlorophyll** b. Milk c. Ruby glass d. Smoke

9. For which of the following smoke is an example?

a. Foam b. Sol c. Gel **d. Aerosol**

10. Which of the following methods is not used for purification of a sol?

**a. Filtration** b. Ultrafiltration c. Dialysis d. Electrodialysis

11. Which of the following possesses physical state of solute and solvent are liquid and solid respectively?

a) Solution of sugar in water **b) Zinc amalgam**

c) Solution of Naphthalene in Benzene d) Brass

12. In which of the following specific conditions CO2 gas is filled in cold drinks, and soda water?

a) At high temperature and high-pressure **b) At low temperature and high pressure**

c) At low temperature and low-pressure d) At high temperature and low pressure

13. Which type of solution, moist air is?

**a) Gas** b) Liquid c) Solid d) Colloidal

14.Which of the following is the universal solvent ?

a) Acetone b) Benzene **c) Water** d) Alcohol

15.A solution in which no more solute can be dissolved in a definite amount of solvent at a given temperature is called………

**a) Saturated solution** b) Un saturated solution

c) Super saturated solution d) Dilute solution

16.Identify the non-aqueous solution.

a) Sodium chloride in water b) Glucose in water

c) Copper sulphate in water **d) Suphur in carbon-di-sulphide**

17. Water boils at a lower temperature at high altitudes, because

**a) The air pressure is less** b) Outside temperature is less

c) Latent heat is less d) None of the above

18**.** In winter season specially in cold countries, ethylene glycol is added to water in the radiators of cars. It results in

a) Reducing the viscosity of water **b) Lowering the freezing point of water**

c) Lowering the boiling point of water d) Reducing the specific heat of water

19**.** Following properties will decrease with increase in temperature except?

a) Surface Tension b) Viscosity c)Density **d) Vapour pressure**

20**.** A pressure cooker works on the principle of

**a) Elevation of boiling point of water by application of pressure**

b) Making the food-grains softer by application of pressure

c) Making the food-grains softer by application of pressure and temperature

d) Keeping the food-grains inside steam for a longer time

21**.** Why do two ice blocks join to from one block when pressed together?

**a) Melting point of ice is lowered with increase in pressure**

b) Melting point of ice increases with increase in pressure

c) Melting point of ice remains unchanged with increase in pressure

d) Melting point of ice is 0°C

22**.** Rate of evaporation increases with

a) An increase in humidity b) An decrease in humidity

c) A decrease in wind speed d) A decrease of temperature

23**.** A liquid is kept in a glass beaker. Which one of the following statement is correct regarding the pressure exerted by the liquid column at the base of the beaker?

a) The pressure depends on the area of the base of the beaker

**b )The pressure depends on the height of liquid column**

c) The pressure does not depend on the height of liquid column

d) The pressure neither depends on the area of the base of the beaker nor on the height of liquid column

24**.** A solution is

**a) A homogeneous mixture of two or more substances** b) A solid dissolved in a liquid

c) A solid dissolved in water d) A mixture of two liquids

25**.** The phenomenon observed when a beam of light is passed through a colloidal Solution is

a) Cataphoresis b) Electrophoresis

c) Coagulation **d) Tyndall Effect**

26. Azeotropic mixtures are

a) Mixture of two solids b) Those which boil at different temperatures

c) Those which can be fractionally distilled **d) The constant boiling mixture**

27. An emulsion is a colloid of a

a) Gas in a liquid **b) Liquid in a liquid** c) Liquid in a gas d) Gas in a solid

28. Gelatin is a lyophilic colloid. It is mostly used in making ice-cream in order to

a) Prevent makings a colloid b) Stabilize mixture

**b) Stabilize the colloid and prevent crystallization** d) Enrich the aroma

29. Ice skating can be used to demonstrate that when ice is under pressure, its:

a) Melting point remains unchanged b) Melting point is changed

**c) Melting point is lowered** d) Coefficient of friction with metal is reduced

30. Which of the following unit of concentration does not depend on temperature?

a. formality b. molarity **c. molality** d. normality