QB365 Question Bank Software Study Materials

Solutions 50 Important 1 Marks Questions With Answers (Book Back and Creative)

10th Standard

Science

Total Marks: 50

Multiple Choice Question

 $50 \times 1 = 50$

1)	A solution is a mixture.
	(a) homogeneous (b) heterogeneous (c) homogeneous and heterogeneous (d) non homogeneous
2)	The number of components in a binary solution is
	(a) 2 (b) 3 (c) 4 (d) 5
3)	Which of the following is the universal solvent?
	(a) Acetone (b) Benzene (c) Water (d) Alcohol
4)	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
5)	Identify the non aqueous solution.
	(a) sodium chloride in water (b) glucose in water (c) copper sulphate in water (d) sulphur in carbon di sulphide
6)	When pressure is increased at constant temperature the solubility of gases in liquid
	(a) No change (b) increases (c) decreases (d) no reaction
7)	Solubility of NaCl in 100 ml water is 36 g. If 25 g of salt is dissolved in 100 ml of water how much more salt is required for saturation
	(a) 12g (b) 11g (c) 16g (d) 20g
8)	A 25% alcohol solution means
	(a) 25 ml alcohol in 100 ml of water (b) 25 ml alcohol in 25 ml of water (c) 25 ml alcohol in 75 ml of water
	(d) 75 ml alcohol in 25 ml of water
9)	Deliquescence is due to
	(a) Strong affinity to water (b) Less affinity to water (c) Strong hatred to water (d) Inertness to water
10)	Which of the following is hygroscopic in nature?
	(a) ferric chloride (b) copper sulphate penta hydrate (c) silica gel (d) none of the above
11)	Sugar and copper sulphate crystals are dissolved in water. The solution is called as
	(a) binary (b) trinary (c) ternary (d) quartenary
12)	40 g of sodium chloride in 100 g of water at 25 ⁰ C forms solution.
	(a) Super saturated (b) Unsaturated (c) Saturated (d) Both (a) and (b)
13)	8% of NaCI solution is
	(a) 8g of NaCl in 100g of water(b) 8g of NaCl in 92g of water(c) 92g of NaCl in 8g of water(d) 92g of NaCl in 100g of water

14)	(a) $CaSO_4 \cdot 7H_2O$ (b) $MgSO_4 \cdot 7H_2O$ (c) $K_2SO_4 \cdot 7H_2O$ (d) $ZnSO_4 \cdot 7H_2O$
15)	Anhydrous copper sulphate is in colour.
	(a) blue (b) bluish green (c) colourless (d) black
16)	A beaker contains a solution of copper sulphate. precipitation of copper sulphate takes place when small amount of it added to solution.
	(a) Saturated (b) Super saturated (c) Unsaturated (d) Concentrated
17)	Quick lime is dissolved in water is a process.
	(a) exothermic (b) endothermic (c) reversible (d) both (a) and (b)
18)	Example for solid in solid
	(a) Soda water (b) Camphor in air (c) Charcoal (d) alloy
19)	The solubility of gases in liquid increases with
	(a) increased volume (b) increased pressure (c) decreased pressure (d) none of these
20)	Salt solution containing common salt in water is an example for
	(a) binary solution (b) trinary solution (c) suspension (d) colloidal solution
21)	Which is a non-aqueous solution?
	(a) sugar in water (b) common salt in water (c) sulphur in carbon disulphide (d) None
22)	In which of the following solutions, both solute and solvent are solids?
	(a) cork (b) cheese (c) alloys (d) smoke
23)	Which of the following factors affect solubility?
	(a) temperature (b) pressure (c) nature of solute and solvent (d) all the above
24)	Solubility of CO_2 gas in water with the increase in pressure.
	(a) increases (b) decreases (c) remains constant (d) None of these
25)	Which of the following is a dehydrating agent (absorbs moistone)
	(a) sodium hydroxide (b) anhydrous calcium chloride (c) sugar (d) None of these
26)	is a homogeneous mixture of two or more substances.
	(a) solution (b) solute (c) solvent (d) colloid
27)	In a solution that component which is present in lesser amount by weight is called
	(a) solution (b) solute (c) solvent (d) colloid
28)	Solution which are made of one solute and one solvent are called
	(a) solutions (b) binary solutions (c) ternary solutions (d) tetranary solutions
29)	A solution contain more than two components are called
	(a) solution (b) binary solution (c) ternary solution (d) tetranary solutions
30)	Give an example of liquid-solid mixture
	(a) Alloys (b) Amalgam (c) Nacl in water (d) None
31)	Give an example of solid-liquid mixture

(a)	Sodium chloride in water (b) ethyl alcohol in water (c) CO ₂ dissolved in water (d) Methyl alcohol in water
32)	Give an example of gas-liquid mixture is
	(a) C ₂ H ₂ OH in water (b) NaCl in water (c) CO ₂ in water (d) none
33)	is called as universal solvent.
	(a) Water (b) Acetone (c) Benzene (d) Ether
34)	The solvent in which water acts as a solvent is called
	(a) aqueous solution (b) non-aqueous solution (c) either aor b (d) neither a nor b
35)	The solution in which any liquid other than water acts as a solvent is called
	(a) aqueous solution (b) non-aqueous solution (c) either aor b (d) neither a nor b
36)	Give an example of unsaturated solution
	(a) 16g of NaCl in 100 g of water (b) 36g of NaCl in 100 g of water (c) 45g of NaCl in 100 g of water (d) 100 g of NaCl in 36 g of water
37)	example of super saturated solution
	(a) 16g of NaCl in 100 g of water (b) 36g of NaCl in 100 g of water (c) 45g of NaCl in 100 g of water (d) 100 g of NaCl in 16 g of water
38)	In endothermic process, solubility increases with in temperature.
	(a) increases (b) decreases (c) either a or b (d) neither a nor b
39)	The pressure is increased, the solubility of a gas in liquid
	(a) increases (b) decreases (c) either a or b (d) neither a nor b
40)	Mass percentage is expressed as
	(a) weight / weight (b) weight / mass (c) mass / weight (d) none
41)	Volume percentage with increases in temperature.
	(a) decreases (b) increases (c) either a or b (d) neither a nor b
42)	Formula for Phosphorus pentoxide is
	(a) F_2O_3 (b) P_2O_5 (c) $P_2H_4O_7$ (d) none
43)	Dehydrating agent is
	(a) Anhydrous calcium chloride (b) Anhydrous potassium chloride (c) hydrous calcium chloride (d) hydrous potassium chloride
44)	Formula for Silica gel is
	(a) SiO_2 (b) SiO_3 (c) SiO_4 (d) SiO
45)	is the human activity involved in the formation of solution with water.
	(a) Dancing (b) Fighting (c) Cleaning (d) Laughing
46)	Cloud is the example of binary solution.
	(a) Gas - Gas (b) Liquid - Gas (c) Gas - Liquid (d) Liquid - liquid
47)	More amount of dissolved is present in the water of cold regions.
	(a) oxygen (b) carbon dioxide (c) sulphur (d) chlorine

48)	Green vitriol has water molecules in it.
	(a) Two (b) Five (c) Seven (d) Three
49)	While doing a science practical experinment, a student left a bottle opened after usage which contained solid sodium hydroxide. When the student visited the laboratory again after few days and found only liquid sodium hydroxide in the bottle. This is due to property of sodium hydroxide.
	(a) Hygroscopic (b) Deliquescence (c) Dehydration (d) Dehydration
50)	25 percent (25%)ethanol solution means
	(a) 25 ml ethanol in 100 ml of water (b) 25 ml ethanol in 25 ml of water (c) 25 mlethanol in 75 ml of water

(d) 75 ml ethanol in 25 ml of wate