CHEMISTRY

- 1). Solutions are classified into aqueous and non-aqueous solutions, based on .
- a) Nature of solute particles
- b) Nature of solvent
- c) Size of the particles
- d) Thickness of solvent

Answer is: b)

- 2). The solvent used to prepare aqueoussolutions is .
- a) Water
- b) benzene
- c) kerosene
- d) petrol

Answer is: a)

- 3). A true solution does not show Tyndall effect, because of the .
- a) Nature of solvent
- b) Amount ofsolute
- c) Size of the particles
- d) Nature of solute

Answer is: c)

- 4). Tyndall effect is exhibited by .
- a) True solutions
- b) Suspensions
- c) Colloidal solutions
- d) Crystals

Answer is: c)

- Tyndall effect is producted by .
- a) True solutions of light b) Scattering of light
- c) Refraction of light
- d) Movement of particles

Answer is: b)

- The particle size in a colloidalsolution is .
- a) 1 Å 10 Å
- b) 10 Å 2000 Å
- c) More than 2000 Å
- d) Less than 1 Å

Answer is: b)

- 7). The particle size in a suspension is .
- a) 1 Å 10 Å
- b) 10 Å 2000 Å
- c) More than 2000 Å
- d) Less than 1 Å

Answer is: c)

8). A solution which has more of solute, at a given temperature than that of saturated solution is called a .

- a) Super saturated solution
- b) Unsaturated solution
- c) Colloidal solution
- d) suspension

Answer is: a)

- 9). Chalk powder in water is an example of .
- a) Saturated solution
- b) Unsaturated solution
- c) suspension
- d) Colloidal solution

Answer is: c)

- 10). The particle size of the solute in true solution is .
- a) 1 Å 10 Å b)
- 10 Å 100 Å
- c) 100 Å 1000 Å
- d) More than 1000 Å

Answer is: a) 11).Milk

is a .

- a) True solution
- b) Colloidal solution
- c) suspension
- d) saturated solution

Answer is: b)

- Nitrogen in soil is an example for .
- a) True solution
- b) saturated
- c) super saturated
- d) unsaturated

Answer is: b)

- 13). Fog is a solution of .
- a) Liquid in gas
- b) Gas in liquid
- c) Solid in gas
- d) Gas in gas

Answer is: a) 14). Soda water is a solution of .

- a) Liquid in gas
- b) Gas in liquid
- c) Solid in gas
- d) Gas in gas

Answer is:b

- 15).Blood is an example of .
- a) True solution
- b) Colloidal solution
- c) Saturated solution

| d) Suspension | |
|----------------------|---|
| Answer is: b) | |
| 16).The dispersed | phase in a colloidalsolution is . |
| a) Solute | |
| b) Solution | |
| c) Suspension | |
| d) Mixture | |
| Answer is: a) | |
| 17).Sugar and Salt | solutions are . |
| a) Heterogeneous | mixtures |
| b) True solutions | |
| c) Colloidal solutio | ins |
| d) Suspensions | |
| Answer is: b) | |
| 18).Brownian mov | ement explains the property of colloidal solutions. |
| a) optical | |
| b) electrical | |
| c) kinetic | |
| d) mechanical | |
| Answer is: c) | |
| 19).In aqueous sol | utions, the solvent used is . |
| a) benzene | |
| b) ether | |
| c) alcohol | |
| d) water | |
| Answer is: d) | |
| 20).The solution in | which saturation is not achieved is called . |
| a) Super saturated | |
| b) Unsaturated | |
| c) Saturated | |
| d) Suspended | |
| Answer is:b) | |
| 21).Cheese is a col | lloidal solution of . |
| a) Solid in solid | |
| b) Liquid in solid | |
| c) Solid in liquid | |
| d) Gas in solid | |
| Answer is:b) | |
| 22).Cork is a colloi | d of . |
| a) Solid in solid | |
| b) Liquid in solid | |

c) Solid in liquidd) Gas in solid

Answer is:d)

- Smoke is a colloid of . a) Solid in solid b) Liquid in solid c) Solid in liquid d) Solid in Gas Answer is:d) 24). The saturation temperature for 20.7g of CuSO4 soluble in water is . a) 100C b) 1000C c) 200C d) 300C Answeris:c) The solubility level of an aqueous solution of NaCl at 250C is . a) 20g b) 36g c) 95g d) 8g Answeris:b) 26). The increase in the solubility of Sodium halides, in water at 250C is / a) NaCl > NaBr > Nal b) NaBr > Nal > NaCl c) Nal > NaBr > NaCl d) NaCl = NaBr > Nal Answer is:c) 27). Solubility of CaO in water is a . a) Chermic b) endothermic c) exothermic d) hypothermic Answer is:c) According to Henry's Law, in gases, an increase in pressure increase. a) Solubility b) saturation c) volume d) viscosity Answeris:a) Deep sea divers use mixture of . a) Helium - Oxygen
 - Answer is:a)

 30). The continuous random motion of colloidal particles is called .
 - a) Brownian movement

b) Nitrogen - Oxygen

d) Helium - Nitrogen

c) Hydrogen - Nitrogen

- b) Zig zag movement c) Continuous movement d) Tyndall effect Answer is:a) 31).On increasing the temperature, the solubility of the solute inthe solvent . a) Increase b) Decrease c) Change d) Does not change Answer is: a) 32). Which law relates solubility of solvents with pressure? a) Hess' law b) Henry's law c) Charles' Law d) Boyle's law Answer is: b) 33). When sunlight passes through the window of your house, the dust particlesscatter the light making the path of the light visible. This phenomenon is called as . a) Brownian motion b) Tyndall effect c) Raman effect d) Uniform motion Answer is: b) 34). The Greek term 'atomos' means . a) divisible b) indivisible c) macro molecule d) soft sphere Answer is:b 35).Isotopes are the atoms of same element, with same atomic number. But with different. a) Atomic number b) Mass number c) Number of electrons d) Chemical nature Answer is: b) 36).6C12 and 6C14 are . a) Isotopes b) Isobars c) Isomers d) Molecules
 - b) Isobars

a) Isotopes

Answer is: a)

37). Atoms of different elements possessing in the same atomic mass are called

| Isomers |
|--|
| Molecules |
| nswer is: c) |
| 3).Atoms of different elements with same number of neutrons. |
| Isotopes |
| Isomers |
| Isobars |
| Isotones |
| nswer is: d) |
| 9).Atomicity of oxygen in ozone molecule is . |
| 1 |
| 2 |
| 3 |
| 4 |
| nswer is: c) |
| 0).Atomicity of primary gases is . |
| 1 |
| 2 |
| 3 |
| 4 |
| nswer is: b) |
| 1).In the Beginning of the 20th century, Matter Wave concept was introduced by |
|) Broglie |
| Avogadro |
| Heisenberg |
| Einstein |
| nswer is: a) |
| 2).The Principle of Uncertainty was introduced by . |
| Broglie |
| Avogadro |
| Heisenberg |
| Einstein |
| nswer is: c) |
| 3).18Ar40 and 20Ca40 are considered as . |
| Isotopes |
| Isomers |
| Isobars |
| Isotones |
| nswer is: a) |
| 1).The compound which does not show simple ratio of atoms, is . |
| Benzene |
| Acetylene |
| Hydrogen |
| Sucrose |
| |

Answer is: d) 45). Avogadro's hypothesis relates volume of gases and . a) mass b) temperature c) pressure d) number of molecules Answer is: d) 46). Atomicity of an element is . a) Valency of an element b) Atomic mass c) Number of atoms in one molecule of an element d) Isotope of an element Answer is: c) 47). Atomicity is given by . a) Mass/molecular mass b) Mass of the element c) Molecular mass X atomic mass d) Molecular mass / atomic mass Answer is: d) 48). The atoms of 6C13 and 7N14 are considered as . a) Isotopes b) Isomers

49). Isotones are the atoms of different elements having .

c) Isobars

d) Isotones

Answer is: d)

Answer is: c)

Answer is: c

a) 2 b) 3 c) 4 d) 5

a) Same mass number

b) Same atomic number

c) Same number of neutrons
 d) Same number of electrons

50). Atomicity of Phosphorous is .