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 aqueous solutions 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 of solute
c) Size of the particles
d) Nature of solute
Answer is: c)
4). Tyndall effect is exhibited by .
a) True solutions
b) Suspensions

# d) Crystals **Answer is: c)**

- 5). Tyndall effect is producted by
  - a) True solutions of light

c) Colloidal solutions



- b) Scattering of light
- c) Refraction of light
- d) Movement of particles

## Answer is: b)

- 6). The particle size in a colloidal solution 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)

- 12).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 wa	ater is a solution <u>of</u> .	
a)	Liquid in gas	
b)	) Gas in liquid	
c)	Solid in gas	
d)	) Gas in gas	
Answer is: b	b	
15).Blood is a	an example of .	
a)	True solution	
b)	) Colloidal solution	
c)	Saturated solution	
d)	) Suspension	
Answer is: I	b)	
16).The disp	persed phase in a colloidal solution is .	
a)	Solute	
b)	) Solution	
c)	Suspension	
d)	) Mixture	
Answer is: a	a)	
17).Sugar an	nd Salt solutions are .	
a)	Heterogeneous mixtures	
b)	True solutions	
c)	Colloidal solutions	
d)	) Suspensions	
Answer is: I	b)	
18).Brownia	an movement explains the property of colloidal soluti	ons.
a)	optical	



- b) electrical c) kinetic d) mechanical Answer is: c)
- 19). In aqueous solutions, 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 colloidal 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 colloid of
  - a) Solid in solid
  - b) Liquid in solid
  - Solid in liquid
  - d) Gas in solid

#### Answer is:d)

23). Smoke is a colloid of



	b)	Liquid in solid
	c)	Solid in liquid
	d)	Solid in Gas
Answ	er is	: d)
24).Th	ne sa	turation temperature for 20.7g of CuSO4 soluble in water is .
	a)	100C
	b)	1000C
	c)	200C
	d)	300C
Answ	er is	: c)
25).Th	ne so	lubility level of an aqueous solution of NaCl at 250C is .
	a)	20g
	b)	36g
	c)	95g
	d)	8g
Answ	er is	: b)
26).Th	ne in	crease 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
Answ	er is	: c)
27).Sc	olubi	lity of CaO in water is a .
	a)	Chermic
	b)	endothermic
	c)	exothermic
	d)	hypothermic
Answ	er is	:c)

a) Solid in solid



28).Accor	ding to Henry's Law, in gases, an increase in pressure inc <u>rease</u>
a)	Solubility
b)	saturatio
c)	n volume
d)	viscosity
Answer is	s: a)
29).Deep	sea divers use mixture of .
a)	Helium - Oxygen
b)	Nitrogen - Oxygen
c)	Hydrogen - Nitrogen
d)	Helium - Nitrogen
Answer is	:: a)
30).The co	ontinuous random motion of colloidal particles is called .
a)	Brownian movement
b)	Zig zag movement
c)	Continuous movement
d)	Tyndall effect
Answer is	s: a)
31).On inc	creasing the temperature, the solubility of the solute in the solvent
	a) Increase
	b) Decrease
	c) Change
	d) Does not change
Answer is	s: a)
32).Which	a law relates solubility of solvents with pressure?
	a) Hess' law
	b) Henry's law
	c) Charles' Law
	d) Boyle's law



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33). When sunlight passes through the window of your house, the dust	t particles scatter 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),C12 and6C14 are
  - a) Isotopes
  - b) Isobars
  - c) Isomers
  - d) Molecules

#### Answer is: a)



37).Atoms of different elements possessing in the same atomic mass are called
·
a) Isotopes
b) Isobars
c) Isomers
d) Molecules
Answer is: c)
38).Atoms of different elements with same number of neutrons.
a) Isotopes
b) Isomers
c) Isobars
d) Isotones
Answer is: d)
39).Atomicity of oxygen in ozone molecule is .
a) 1
b) 2
c) 3
d) 4
Answer is: c)
40).Atomicity of primary gases is .
a) 1
b) 2
c) 3
d) 4
Answer is: b)

41).In the Beginning of the 20th century, Matter Wave concept was introduced by



	<b>_</b> '
	a) Broglie
	b) Avogadro
	c) Heisenberg
	d) Einstein
Answer is	s: a)
42).The Pr	rinciple of Uncertainty was introduced by .
	a) Broglie
	b) Avogadro
	c) Heisenberg
	d) Einstein
Answer is	s: c)
43) <u>A</u> r40	and 20Ca40 are considered as .
	a) Isotopes
	b) Isomers
	c) Isobars
	d) Isotones
Answer is	s: a)
44).The co	ompound which does not show simple ratio of atoms, is
	a) Benzene
	b) Acetylene
	c) Hydrogen
	d) Sucrose
Answer is	s: d)
45).Avoga	dro'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
  - c) Isobars
  - d) Isotones

#### Answer is: d)

- 49). Isotones are the atoms of different elements having
  - a) Same mass number
  - b) Same atomic number
  - c) Same number of neutrons
  - d) Same number of electrons

#### Answer is: c)



50).Atomicity of Phosphorous is \_\_\_\_\_.

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

Answer is: c)

