## **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) Answer is: b)	Thickness of solvent
2). The solver	nt used to prepare aqueous solutions is
a)	Water
b)	benzene
c)	kerosene
d)	petrol
Answer is: a)	
3). A true solu	ution 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 ef	fect is exhibited by
a)	True solutions
b)	Suspensions
c)	Colloidal solutions
d) Answer is: c)	Crystals
5). Tyndall ef	fect is producted by
a)	True solutions of light



b)	Scattering of light	
c)	Refraction of light	
d)	Movement of particles	
Answer is: b)		
6). The partic	le size in a colloidal solution is	
a)	$1~\textrm{\AA} - 10~\textrm{Å}$	
b)	10 Å - 2000 Å	
c)	More than 2000 Å	
d)	Less than 1 Å	
Answer is: b)		
7). The partic	le size in a suspension is	
a)	$1~\textrm{\AA} - 10~\textrm{Å}$	
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 pow	der in water is an example of	
a)	Saturated solution	
b)	Unsaturated solution	
c)	suspension	



d)	Colloidal solution
Answer is: c)	
10). The parti	cle size of the solute in true solution is
a)	1 Å – 10 Å b)
10	Å - 100 Å
c) 1	100 Å - 1000 Å
<b>d</b> ) I	More than 1000 Å
Answer is: a)	11).Milk
is a	
a)	True solution
,	Colloidal solution
c)	suspension
d)	saturated solution
Answer is: b)	
12).Nitrogen i	n 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)



a)	Liquid in gas	
b)	Gas in liquid	
c)	Solid in gas	
d)	Gas in gas	
Answer is:b		
5).Blood is an	example of	
a)	True solution	
b)	Colloidal solution	
c)	Saturated solution	
d)	Suspension	
Answer is: b)		
16).The disper	rsed phase in a colloidal solution 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 solutions	
d)	Suspensions	
Answer is: b)		
18).Brownian	movement explains the	_property of colloidal solutions.
a)	optical	

14).Soda water is a solution of \_\_\_\_\_.



	b	electrical
	C	) kinetic
	C	) mechanical
Answer	· is: c)	
19).In	aquec	ous solutions, the solvent used is
	a	) benzene
	b	) ether
	C	alcohol
	C	) water
Answer	is: d	
20).The	e solu	tion in which saturation is not achieved is called
	a	) Super saturated
	b	) Unsaturated
	C	) Saturated
	c	) Suspended
Answe	r is: ł	
21).Ch	eese i	s 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
	c)	Solid in liquid
	d)	Gas in solid
Answe	r is:d	
23).Sm	oke i	s a colloid of



	b)	Liquid in solid	
	c)	Solid in liquid	
	d)	Solid in Gas	
Answei	r is:	$\mathbf{l}$ )	
24).The	satu	uration temperature for 20.7g of CuSO <sub>4</sub> soluble in water is	
	a)	$10^{0}$ C	
	b)	$100^{0}$ C	
	c)	$20^{0}$ C	
	d)	$30^{0}$ C	
Answer	is:c)		
25).The	solu	ability level of an aqueous solution of NaCl at 25 <sup>0</sup> C is	
	a)	20g	
	b)	36g	
	c)	95g	
	d)	8g	
Answer	is:b)		
26).The	incr	rease in the solubility of Sodium halides, in water at 25 <sup>0</sup> C is	
	a)	NaCl > NaBr > Nal	
	b)	NaBr > Nal > NaCl	
	c)	Nal > NaBr > NaCl	
	d)	NaCl = NaBr > Nal	
Answei	r is: c	2)	
27).Sol	27). Solubility of CaO in water is a		
	a)	Chermic	
	b)	endothermic	
	c)	exothermic	
	d)	hypothermic	
Answei	r is:c		

Solid in solid



28).Acc	cordi	ng to Henry's Law, in gases, an increase in pressure increase
;	a)	Solubility
	b)	saturation
	c)	volume
	d)	viscosity
Answei	ris: a	
29).Dee	ep se	a divers use mixture of
į	a)	Helium - Oxygen
	b)	Nitrogen - Oxygen
1	c)	Hydrogen - Nitrogen
1	d)	Helium - Nitrogen
Answei	r is: a	a)
30).The	con	tinuous random motion of colloidal particles is called
i	a)	Brownian movement
	b)	Zig zag movement
1	c)	Continuous movement
	d)	Tyndall effect
Answei	r is:a	a)
31).On	incre	easing the temperature, the solubility of the solute in the solvent
	a	a) Increase
	k	o) Decrease
	C	c) Change
	C	d) Does not change
Answer	is: a	
32).Wh	ich l	aw relates solubility of solvents with pressure?
	a	a) Hess' law
	k	) Henry's law
	C	c) Charles' Law
	c	d) Boyle's law



A	•	1
Answer	16.	h
	10.	•

Answer is: a)

33).When sun	light passes through the window of your house, the dust particles scatter the light
making the pa	th 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	
	the atoms of same element, with same atomic number. But with different.
35).Isotopes are	e the atoms of same element, with same atomic number. But with different.  Atomic number
35).Isotopes are	
35).Isotopes are a) b)	Atomic number
a) b) c)	Atomic number  Mass number
a) b) c)	Atomic number  Mass number  Number of electrons
a) b) c) d) Answer is: b)	Atomic number  Mass number  Number of electrons
35).Isotopes are  a) b) c) d)  Answer is: b) 36). <sub>6</sub> C <sup>12</sup> and	Atomic number  Mass number  Number of electrons  Chemical nature
35).Isotopes are  a) b) c) d)  Answer is: b) 36). <sub>6</sub> C <sup>12</sup> and a)	Atomic number  Mass number  Number of electrons  Chemical nature
35).Isotopes are  a) b) c) d)  Answer is: b) 36). <sub>6</sub> C <sup>12</sup> and a) b)	Atomic number  Mass number  Number of electrons  Chemical nature  5C14 are  Isotopes



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 20<sup>th</sup> century, Matter Wave concept was introduced by\_

collegedunia

·	
<b>a</b> )	Broglie
·	-
	Avogadro
	Heisenberg
Answer is: a)	Einstein
	iple of Uncertainty was introduced by
·	Broglie
	Avogadro
·	Heisenberg
·	Einstein
Answer is: c)	
43). <sub>18</sub> Ar <sup>40</sup> and	d 20Ca <sup>40</sup> are considered as
a)	Isotopes
b)	Isomers
c)	Isobars
d)	Isotones
Answer is: a)	
44).The comp	ound which does not show simple ratio of atoms, is
a)	Benzene
b)	Acetylene
c)	Hydrogen
d)	Sucrose
Answer is: d)	
	's hypothesis relates volume of gases and
	mass
·	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 ${}_{6}C^{13}$ and ${}_{7}N^{14}$ 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)

