## **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 solve	nt used to prepare aqueous solutions is
a)	Water
b)	benzene
c)	kerosene
d)	petrol
Answer is: a)	
3). A true sol	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 ei	fect is exhibited by
a)	True solutions
b)	Suspensions
c)	Colloidal solutions
d) Answer is: c)	Crystals
5). Tyndall ei	fect is producted by
a)	True solutions of light

	c)	Refraction of light
	d)	Movement of particles
Answer is:	b)	
6). The par	rticl	e 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 par	rticl	e 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)	
3). A solut	ion	which has more of solute, at a given temperature than that of saturated
solution is	call	ed a
	a)	Super saturated solution
	b)	Unsaturated solution
	c)	Colloidal solution
	d)	suspension
Answer is:	a)	
9). Chalk p	ow	der in water is an example of
	a)	Saturated solution
	b)	Unsaturated solution
	c)	suspension

b) Scattering of light

a)	Colloidal solution				
Answer is: c)					
10). The parti	cle size of the solute in true solution is				
a)	a) $1 \text{ Å} - 10 \text{ Å b}$				
10	Å - 100 Å				
c)	c) 100 Å - 1000 Å				
d) 1	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 in soil is an example for					
a)	True solution				
b)	saturated				
c)	super saturated				
d)	unsaturated				
Answer is: b)					
13).Fog is a so	olution of				
a)	Liquid in gas				
b)	Gas in liquid				
c)	Solid in gas				
d)	Gas in gas				

Answer is: a)

14).Soda wate	er 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 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	

	c) kinetic		
	d) mechanical		
	<i>,</i>		
Answer is:	c)		
19).In aqu	eous solutions, the solvent used is		
	a) benzene		
	b) ether		
	c) alcohol		
	d) water		
Answer is:	d)		
20).The so	lution 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		
c)	Solid in liquid		
d)	Gas in solid		
Answer is:d)			
23).Smoke	e is a colloid of		

b) electrical

b	) Liquid in solid		
C	Solid in liquid		
d	) Solid in Gas		
Answer	is:d)		
24).The s	saturation temperature for 20.7g of CuSO <sub>4</sub> soluble in water is		
a)	$10^{0}$ C		
<b>b</b> )	$100^{0}$ C		
C	$20^{0}$ C		
d	$30^{\circ}$ C		
Answeris	s:c)		
25).The s	solubility level of an aqueous solution of NaCl at 25 <sup>0</sup> C is		
а	) 20g		
b	) 36g		
C	95g		
d	<b>)</b> 8g		
Answeris	<b>(b)</b>		
26).The i	ncrease in the solubility of Sodium halides, in water at 25 <sup>0</sup> C is/		
а	) NaCl > NaBr > Nal		
b	) NaBr > Nal > NaCl		
C	Nal > NaBr > NaCl		
d	NaCl = NaBr > Nal		
Answer	is:c)		
27).Solul	pility of CaO in water is a		
а	) Chermic		
b	) endothermic		
c	) exothermic		
d	) hypothermic		
Answer	is:c)		

Solid in solid

28).Accord	ling to Henry's Law, in gases, an increase in pressure increase		
a)	Solubility		
b)	saturation		
c)	volume		
d)	viscosity		
Answeris:	<b>a</b> )		
29).Deep s	ea divers use mixture of		
a)	Helium - Oxygen		
b)	Nitrogen - Oxygen		
c)	Hydrogen - Nitrogen		
d)	Helium - Nitrogen		
Answer is:	$(\mathbf{a})$		
30).The co	ntinuous random motion of colloidal particles is called		
a)	Brownian movement		
b)	Zig zag movement		
c)	Continuous movement		
d)	Tyndall effect		
Answer is:a)			
31).On inc	reasing the temperature, the solubility of the solute in the 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 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
	Tyndall effect
-	Raman effect
a)	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)	
$36).6C^{12}$ and	$_{\rm 5}{ m C}^{14}~{ m are}$ .

Answer is: a)

a) Isotopes

b) Isobars

c) Isomers

d) Molecules

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 Beg	inning of the 20 <sup>th</sup> century, Matter Wave concept was introduced by_

Broglie
Avogadro
Heisenberg
Einstein
ple of Uncertainty was introduced by
Broglie
Avogadro
Heisenberg
Einstein
d <sub>20</sub> Ca <sup>40</sup> are considered as
Isotopes
Isomers
Isobars
Isotones
ound which does not show simple ratio of atoms, is
Benzene
Acetylene
Hydrogen
Sucrose
'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 ${}_6\mathrm{C}^{13}$ and ${}_7\mathrm{N}^{14}$ are considered as				
a)	Isotopes			
b)	Isomers			
c)	Isobars			
d)	Isotones			
Answer is: d)				
49).Isotones a	re 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)				

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7()	<b>λ tomicity</b>	I Of Phosi	nharalie 1e	
20	Atomicit'	y OI I HOS	piiorous is	•

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

Answeris: c)