## **CHEMISTRY**

1). Solution	is ar	re classified into aqueous and non-aqueous solutions, based on				
ć	a)	Nature of solute particles				
I	b)	Nature of solvent				
(	c)	Size of the particles				
	d)	Thickness of solvent				
Answer is: b	))					
2). The solv	vent	used to prepare aqueous solutions is				
ć	a)	Water				
I	b)	benzene				
(	c)	kerosene				
(	d)	petrol				
Answer is: a	ı)					
3). A true s	olut	ion does not show Tyndall effect, because of the				
;	a)	Nature of solvent				
I	b)	Amount of solute				
(	c)	Size of the particles				
(	d)	Nature of solute				
Answer is: c	<u>e</u> )					
4). Tyndall	effe	ect is exhibited by				
ć	a)	True solutions				
I	b)	Suspensions				
(	c)	Colloidal solutions				
	d)	Crystals				
Answer is: c	2)					
5). Tyndall effect is producted by						
ć	a)	True solutions of light				

(	c)	Refraction of light
(	d)	Movement of particles
Answer is: b	)	
6). The part	ticle	e size in a colloidal solution is
ć	a)	1 Å – 10 Å
ł	)	10 Å - 2000 Å
(	c)	More than 2000 Å
(	d)	Less than 1 Å
Answer is: b	)	
7). The part	ticle	e size in a suspension is
á	a)	$1~\textrm{\AA} - 10~\textrm{Å}$
ł	)	10 Å - 2000 Å
(	c)	More than 2000 Å
(	d)	Less than 1 Å
Answer is: c	)	
3). A soluti	on '	which has more of solute, at a given temperature than that of saturated
solution is c	alle	ed a
á	a)	Super saturated solution
k	o)	Unsaturated solution
(	c)	Colloidal solution
(	d)	suspension
Answer is: a	)	
9). Chalk po	owo	der in water is an example of
6	a)	Saturated solution
k	၁)	Unsaturated solution
(	c)	suspension

b) Scattering of light

(	Colloidal solution				
Answer is: c					
10). The particle size of the solute in true solution is					
á	a) $1 \text{ Å} - 10 \text{ Å b}$				
1	) Å - 100 Å				
C	100 Å - 1000 Å				
C	d) More than 1000 Å				
Answer is:	) 11).Milk				
is a					
ć	True solution				
	Colloidal solution				
(	suspension				
C	saturated solution				
Answer is: b					
12).Nitroge	in soil is an example for				
á	True solution				
k	saturated				
(	super saturated				
C	unsaturated				
Answer is: b)					
13).Fog is a solution of					
á	Liquid in gas				
k	Gas in liquid				
(	Solid in gas				
(	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 theproperty of colloidal solutions.				
a)	optical				

	c)	kinetic		
	,	mechanical		
Answer is:	<b>c</b> )			
19).In aqu	eou	s solutions, the solvent used is		
	a) benzene			
	b)	ether		
	c)	alcohol		
	d)	water		
Answer is:	d)			
20).The so	luti	on in which saturation is not achieved is called		
	a)	Super saturated		
	b)	Unsaturated		
	c)	Saturated		
	d)	Suspended		
Answer is	:b)			
21).Cheese	e is	a colloidal solution of		
a)	S	olid in solid		
b)	L	iquid in solid		
c)	Solid in liquid			
d)	Gas in solid			
Answer is:b)				
22).Cork is a colloid of				
a)	Solid in solid			
b)	L	iquid in solid		
c)	S	olid in liquid		
d)	G	as in solid		
Answer is:d)				
23).Smoke is a colloid of				

b) electrical

b)	Liquid in solid		
c)	Solid in liquid		
d)	Solid in Gas		
Answer i	s:d)		
24).The s	aturation 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		
Answeris	::c)		
25).The s	olubility level of an aqueous solution of NaCl at 25 <sup>0</sup> C is		
a)	20g		
b)	36g		
c)	95g		
d)	8g		
Answeris	<b>(b)</b>		
26).The in	ncrease 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		
Answer i	s:c)		
27).Solub	ility of CaO in water is a		
a)	Chermic		
b)	endothermic		
c)	exothermic		
d)	hypothermic		
Answer i	s:c)		

Solid in solid

28).Acco	rding to Henry's Law, in gases, an increase in pressure increase
a	Solubility
b	saturation
C)	volume
d	viscosity
Answeris	: a)
29).Deep	sea divers use mixture of
a	Helium - Oxygen
b	Nitrogen - Oxygen
C	Hydrogen - Nitrogen
d	Helium - Nitrogen
Answer	s:a)
30).The	continuous random motion of colloidal particles is called
a	Brownian movement
b	Zig zag movement
C	Continuous movement
ď	Tyndall effect
Answer	s:a)
31).On ir	creasing the temperature, the solubility of the solute in the solvent
	a) Increase
	b) Decrease
	c) Change
	d) Does not change
Answer is	: a)
32).Whic	h 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 particlesscatter the light			
making the pa	th of the light visible. This phenomenon is called as			
a)	Brownian motion			
,				
	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	e 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). <sub>6</sub> C <sup>12</sup> and	$_{\rm 5}{ m C}^{14}$ 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
	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	ginning of the 20 <sup>th</sup> century, Matter Wave concept was introduced by_

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a)	Broglie
b)	Avogadro
c)	Heisenberg
d)	Einstein
Answer is: a)	
42).The Princi	iple of Uncertainty was introduced by
a)	Broglie
b)	Avogadro
c)	Heisenberg
d)	Einstein
Answer is: c)	
43). <sub>18</sub> Ar <sup>40</sup> and	d <sub>20</sub> Ca <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)	
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	s 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 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)				

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50	).Atomicity	Int Phac	nhorous	10
20		OLLHOS	phorous	10

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

Answer is: c)