CHEMISTRY

1). Solutions a	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 solven	at used to prepare aqueous solutions is
a)	Water
b)	benzene
c)	kerosene
d)	petrol
Answer is: a)	
3). A true solu	tion 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 eff	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

d)	Colloidal solution						
Answer is: c)							
10). The parti	cle size of the solute in true solution is						
a)	a) 1 Å – 10 Å b)						
10	Å - 100 Å						
c)	100 Å - 1000 Å						
d) 1	d) More than 1000 Å						
Answer is: a)	11).Milk						
is a							
a)	True solution						
•	Colloidal solution						
,	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 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 dispe	rsed phase in a colloidal solutio	n is			
a)	Solute				
b)	Solution				
c)	Suspension				
d)	Mixture				
Answer is: a)					
17).Sugar and	Salt solutions are	<u>-</u> -			
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:	c)			
19).In aque	eou	s solutions, the solvent used is		
	a)	benzene		
	b)	ether		
	c)	alcohol		
	d)	water		
Answer is:	d)			
20).The so	lutio	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) Solid in solid				
b)	Liquid in solid			
c)	Solid in liquid			
d)	G	as in solid		
Answer is	:b)			
22).Cork is	sac	colloid of		
a)	S	olid in solid		
b)	L	iquid in solid		
c)	So	olid in liquid		
d)	G	as in solid		
Answer is:d)				
23).Smoke	is a	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 ₄ 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 ⁰ C is				
a)	20g				
b)	36g				
c)	95g				
d)	8g				
Answeris:	b)				
26).The ii	ncrease in the solubility of Sodium halides, in water at 25 ⁰ 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).Accord	ding to Henry's Law, in gases, an increase in pressure increase			
a)	Solubility			
b)	saturation			
c)	volume			
d)	viscosity			
Answeris	a)			
29).Deep s	ea divers use mixture of			
a)	Helium - Oxygen			
b)	Nitrogen - Oxygen			
c)	Hydrogen - Nitrogen			
d)	Helium - Nitrogen			
Answer is	: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
	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). ₆ C 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	ginning of the 20 th century, Matter Wave concept was introduced by_

·	
a)	Broglie
•	Avogadro
•	Heisenberg
	Einstein
Answer is: a)	
42).The Princi	ple of Uncertainty was introduced by
a)	Broglie
•	Avogadro
	Heisenberg
d)	Einstein
Answer is: c)	
	1 ₂₀ Ca ⁴⁰ are considered as
	Isotopes
•	Isomers
·	Isobars
d)	Isotones
Answer is: a)	
44).The compo	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
•	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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50	.Atomicity	nt Phos	nhorous	10	
20	Atomicit y	OI I HOS	photous	15	

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

Answeris: c)