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 solven	t 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 eft	ect is exhibited by		
a)	True solutions		
b)	Suspensions		
c)	Colloidal solutions		
d) Answer is: c)	Crystals		
5). Tyndall effect is producted by			
a)	True solutions of light		



(d	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 Å - 10 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 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 cal	led 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



C	d) Colloidal solution
Answer is: c)	
10). The par	rticle size of the solute in true solution is
a	a) $1 \text{ Å} - 10 \text{ Å b}$
1	0 Å - 100 Å
c	e) 100 Å - 1000 Å
d	l) More than 1000 Å
Answer is:	a) 11).Milk
is a	
5	a) True solution
	Colloidal solution
c	c) suspension
c	d) saturated solution
Answer is: b	
12).Nitrogei	n in soil is an example for
ā	a) True solution
k	o) saturated
c	super saturated
c	d) unsaturated
Answer is: b)
13).Fog is a	solution of
a	a) Liquid in gas
b) Gas in liquid
C	c) Solid in gas
c	d) Gas in gas

Answer is: a)



14).Soda wate	r is a solution of	
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	sed phase in a colloidal solution i	s
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	



	k	o) electrical
	C	c) kinetic
	C	d) mechanical
Answer	is: c	
19).In a	que	ous solutions, the solvent used is
	á	a) benzene
	k	ether
	C	c) alcohol
	C	d) water
Answer	is: d)
20).The	solu	ition in which saturation is not achieved is called
	á	a) Super saturated
	k) Unsaturated
	Ċ	c) Saturated
	C	Suspended
Answei	r is:l	o)
21).Che	ese	is a colloidal solution of
	a)	Solid in solid
	b)	Liquid in solid
	c)	Solid in liquid
	d)	Gas in solid
Answei	r is:t)
22).Cor	k is	a colloid of
	a)	Solid in solid
	b)	Liquid in solid
	c)	Solid in liquid
	d)	Gas in solid
Answei	r is:c	l)
23).Sme	oke i	s a colloid of



	a)	Solid in solid
	b)	Liquid in solid
	c)	Solid in liquid
	d)	Solid in Gas
Answe	er is:	d)
24).Th	ie sati	uration 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
Answe	ris: c)
25).Th	e sol	ubility level of an aqueous solution of NaCl at 25 ⁰ C is
	a)	20g
	b)	36g
	c)	95g
	d)	8g
Answei	ris:b)	
26).Th	e inc	rease 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
Answe	er is:	c)
27). S o	lubili	ty of CaO in water is a
	a)	Chermic
	b)	endothermic
	c)	exothermic
	d)	hypothermic

Answer is:c)



28).Accord	ling 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 inci	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).W	Vhen sunli	ght passes	through th	ne window	of your hou	ise, the dust p	particles scatter	the light
makir	ng the pat	h of the lig	ht visible.	This phene	omenon is ca	alled 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).₆C¹² and ₆C¹⁴ are_____.

- a) Isotopes
- b) Isobars
- c) Isomers
- d) Molecules

Answer is: a)



3/).Atoms of .	different elements possessing in the same atomic mass are called
 a)	Isotopes
9	Isobars
1932	Isomers
9020 - W	Molecules
200 2 %	Wolcedies
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_



	Broglie
****	Avogadro
c)	Heisenberg
5000 3 10	Einstein
Answer is: a)	
(2).The Princi	ple of Uncertainty was introduced by
a)	Broglie
b)	Avogadro
c)	Heisenberg
d)	Einstein
Answer is: c)	
13). ₁₈ Ar ⁴⁰ and	d 20Ca ⁴⁰ are considered as
a)	Isotopes
b)	Isomers
c)	Isobars
d)	Isotones
Answer is: a)	
14).The comp	ound which does not show simple ratio of atoms, is
a)	Benzene
b)	Acetylene
c)	Hydrogen
d)	Sucrose
Answer is: d)	
l5).Avogadro	's hypothesis relates volume of gases and
a)	mass

b) temperature



c)	pressure
d)	number of molecules
answer is: d)	
6).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)	
7).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)	
8).The atoms	s of 6C ¹³ and 7N ¹⁴ are considered as
a)	Isotopes
b)	Isomers
c)	Isobars
d)	Isotones
nswer is: d)	
9).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)



50). Atomicity of Phosphorous is______.

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

Answeris: c)

