4. Measurement of matter

M	<u>C</u> (\mathbf{Q}^{2}	'S

Q.1 Protons and neutrons are tog	gether called
a) Nucleons b)	electron
c) Both a and b d)	None of these.
AnsNucleons	
Q.2Themaseof one nitrogethat of a hydrogen atom.	en atom istimes
a) 14 b) 15 c) 16	d) 2
Ans 14	
Q.3 The number of valence is	e electrons in aluminium
a) 3 b) 6 c) 12	d) 0
Ans 3	
Q.4 Properties by weight in water is	of hydrogen and oxygen
a) 1:8 b) 2:1 c)2:2	d) 1:2
Ans1:8	

Q.5	One	mole	of	carbo	on	dioxide
conta	ains	mole	cules.			
a)	6.022×	10^{23}	b)	6.022	$\times 10^2$	0
b)	6.022×	10^{-2}	d)	6.022	$\times 10$	
Ans	6.022×1	0^{23}				
Q.6su	ılphide id	on is	,			
a) S ²⁻	b)	SO_4^{2-} c)	SO ₃ ² -	d) H	$[SO_4]$	
Ans	S^{2-}					
Q.7N	itrite ion	is				
a) NC	\mathbf{D}_2	b) N ₃ c) NO	3	d) NO) ₃
Ans	NO_2					
Q.8 T	The electr	onic confi	guratio	on of so	odium	·•
a) 2,8	3,1 b) 2,8	c) 2,	8,2	d) 2,8,	4	
Ans	2,8,1					
Q.9 T	The soluti	on of calc	ium ch	loride	is	·
a) Co	lorless	b) <u>s</u>	yellow			
c) gr	een	d) re	ed			
Ans	Colorles	SS.				

Q.10 The size of an atom is determined by its
a) Radius b) mass
c) both a and b d) none of these.
AnsRadius
Q.11Identify the symbol of bicarbonate from the following
a) HCO ₃ b) HCO ₃ c)HCO d) HO ₃
AnsHCO ₃
Q.12 What is the valency of copper in Cuso ₄ .
a) Two d) Three c) Four d) Zero
AnsTwo
Q.13Identify the valency of carbon.
a) 4 b) 5 c) 2 d) 6
Ans 4
Q.14 An important principle of Dalton's atomic theory is that molecules of a are formed by joining atoms of different elements.
a) Base b) acid

c)Compound	d) None of these
AnsCompound	
Q.15 The proportion oxygen in water is	ion by weight of hydrogen and
a) 2:1 b) 1:8	3 c) 2:4 d) 1:5
Ans1:8	
his research that '	There is no rise or drop in the er during a chemical reaction'.
a) Dalton b) Ant	oine Lavoisier
c) Only a	d) None of these.
AnsAntoine Lavo	oisier
Q.17 The atomic of in an	size depends on the number na atom.
a) Electron orbits	b) electrons
c) Nucleus	d) Protons
AnsElectron orbi	ts

Q.18 Unifie	ed mass is	calle	d			
a) Dalton		b)	Anto	ine Lavo	oisier	
c)Both a an	d b	d)	None	ot these	<u>}</u>	
AnsDalton	n					
Q.19 A_sunbstance.	Whose	mass	in g	grams is	s equal	l in
a) Molecul	e		b) Mo	olecular 1	mass	
c) Mole			d) At	om		
AnsMole						
Q.20Avaga symbol		ımber	is	denoted	d by	the
a) NA	b) NB		c) N		d) N ⁰	
AnsNA						
Q.21 Cation	nic radica	ls are	called	d as	_radica	ıls.
a) Acidic	b) b	asic				
c) ionic	d) None	of the	ese			
Ansbasic						

Q.22 Anion	nic radicals	s are called as_	radicals.
a) Basic	b) cations	c) Acidic	d) ions
AnsAcidi	.C		
Q.23 Mole	cular state	of oxygen is_	·
a) Monoato	omic	b) Diatomi	c
c) acidic	d	l) basis	
AnsDiato	omic		
Q.24 The its		of charge or	any radical is
a) Atomic	number	b) Atomic	e mass
c) Mass		d) Valenc	y
AnsValer	ncy.		
Q.15 The v	ınit Dalton	is used to exp	ress
a) Atomic	number	b) Atomic	mass
c) Atoms d) Molecule	es.	
AnsAtom	ic mass		

Q.26 Iron	(Fe) has	the variable	valencies	as
a) 1 and 2	b) 2 and 2		
c) 1 and 1	ď) 2 and 3.		
Ans2 and	3.			
Q.27	is a co	mposite radic	al.	
a) NH ₄ ⁺ b)	NH_3			
c) NH ₄ d) C	a^{2+} .			
AnsNH ₄ ⁺				
Q.28	g of wate	r makes 1 mo	ole of water.	
a) 18	b) 20	c) 2	d) 14	
Ans18				
_		ar formula o , Cl is 106.5.	f Alcl ₃ , if	the
a) 133.5	b) 136.5	c) 134.0	d) 130).5
Ans133.5				

_		ular formula 24, and oxyg	of MgO,if the gen 16.
a) 36	b) 38	c) 40	d) 52
Ans40			
reactant is s	ame as t	he total weig	al weight of the ght of products s law is
a) Law of con	nservartic	on of matter.	
b) Molecular	mass		
c) Valency			
d) Law of co	nstant pro	portion.	
elements give electrons. The	e away on nose elem	take up diffenents exhibit	e atoms of some erent number of more than one scalled
a) Valency	b) Va	ariable valenc	ey .
c) Atoms	d) Elem	nents.	
AnsVariabl	e valency		

Q.33 Atomic radius is measured in
a) microns b) micrometers
c) nanometer d) None of these
AnsNanometer
Q.34 Elements like iron (Fe) and copper (Cu) exhibitsvalency. a) Variableb) Zero
c) One d) None of these.
AnsVarialble
Q.35 The magnitude ofon any radical is its valency.
a) Valency b) charge
c) atoms d) mass
AnsCharge
Q.36 J.L. Proust formulated
a) Law of constant proportion
b) Law of conservation
c) Chemical symbol
d) None of these.

Ans.-Law of constant proportion

Q.37 Berzelius formulated_____.

- a) Chemical symbols
- b) Law of constant proportion
- c) Law of conservation of matter.
- d) Valency.

Ans.-Chemical symbols

Q.38 The proportion by weight of the constituent elements in the various samples of a compound is fixed this statement is _____.

- a) Law of conservation of matter
- b) Law of constant proportion
- c) Both a and b
- d) None of these.

Ans.-Law of constant proportion

Q.39 Following is an example of $-Na^+$.

- a) Composite radical
- b)Monoatomic radical
- c) Ionic radical
- d) None of these.

Ans.-Monoatomic radical

a) Water

Q.40 Fin	d the which do n	ot have molect	ule.
a) Na	b) Al	c) Mg	d) H ₂
AnsH ₂			
Q.41 Fir	nd which is not a wing.	monoatomic ra	adical from
a) Ag ⁺	b) Fe ⁺²	c) NH ₄ ⁺	d) Cu ⁺
AnsNH	[₄ ⁺		
	nd from the folte	llowing which	h is not a
a) So ₄ ⁻² d) Cl ⁻ c) Co ₃ ⁻² d) N	O ₃	
AnsCl			
Q-43. Fit valency.	nd the element th	at does not she	ow variable
a) Fe	b) Cu	c) Mg	d) Hg
	That products are treated with hydro		hen copper

b) Copper

c) Water and element copper d) None of these.
Q-45. Find the element from following that has variables valency.
a) Fluorineb) carbonc)Aluminiume) copper
Q-46. Find from following which has basic radical.
a)Stannous ion b) Hydride ion
c) Nitrite ion d) None of these.
Q-47.Compouds are formed when atoms of different elements combine by
a) Chemical reaction b) Chemicals
c) elements d) None of these.
Q-48. Identify the molecular formula for siaked lime
a) Ca(OH) ₂ b) Cao c) C d) CaCo ₃
Q-49. Identify the molecular formula for Lime stone

a)	CaCo ₃	b) Ca	c) C	d) C0 ₃
Q-50.Earnet Rutherford conducted a well known experiment called				
	Conductor		old foil	c) Silver foil
d) None of these.				