	Student Name	<u>Prof</u>	: Umair Ali K	<u> Chan (www.um</u>	airkhanacademy.com)
1)	The number of moles of CO ₂ that contain 16g of oxygen. (a) 0.25 (b) 0.50	(c) 0.75		(d) 1.0	
2)	Which of the following is not used for ionic compounds? a) Formula unit (b) empirical formula	(c) molecular	r formula	(d) formula mass	
3)	The relative mass of two moles of chlorine gas.	3200		80	
4)	(a) 142g (b) 71g The volume occupied by 1.4 gm N ₂ at S.T.P is:	(c) 35.5g		(d) 18.75g	
5)	(a) 2.24 dm ³ (b) 22.4 dm ³ Which one has maximum number of isotopes.	(c) 1.12 dn	<u>1³</u>	(d) 112 Cm ³	
6)	(a) oxygen (b) chlorine Isotopes differ in:	(c) tin		(d) Hydrogen	
	(a) No. of protons (b) No of Neutrons	(c) No of elec	trons	(d) none	
7)	Mass spectrometer separates isotopes in analyzer according. (a) Charge (b) Mass	(c) e/m		(d) m/e	
8)	The mass of 2 mole of sodium hydroxide will be (a) 2 g (b) 20 g (c) 40 g	(d) 80 g			
9)	Which term is used for the mass of chlorine.	rage atomic mas	ss (d)relative ato	mic mass	
10)	Which is not a mono isotopic element?	rage atomic ma.		mic mass	Direction
11)	a) Fluorine b) Iodine Which pair has same number of protons, electrons and neutron		c) Gold		d) Nitrogen
12)		(c) NO ₂ & CO	(d) NO ₂ &	CO_2	
13)	(a) NH $^{+1}$ (b) CO $^{+}$ (c) N $^{+2}$ Height of peak in mass spectrum shows	(d) NH ⁺¹		
	(a) Number of isotopes (b) Mass number		(c) Relative abunda	nce (d) Charge	e on Isotopes
	Which of the following has highest %age of Oxygen (a) CH ₃ OH (b) CH ₂ O ₅ H	(c) H ₂ O		(d) HCOOH	
15)	The number of atoms in molecule (a) Atomicity (b) Avogadro's		(c) Mole	(d) M	folecularity
16)	3 moles of NH ₃ is equals to? (a) 67.3 dm^3 (b) 18 dm^3 (c) 1 d	lm³	(d) None	e of them	•
17)	The electrometer is also called a) Spectrometer b) Photometer b) Photometer		c) Ion collector	d) Anal	v izon
18)	Which vitamin is present in Ascorbic acid?			u) Aliai	± 16 16 17
19)	a) vitamin B complex b) vitamin C How many moles of water are present in 36g of water?		c) vitamin D		d) vitamin A
20)	a) 1 b) 2 How many molecules of glucose are present 90g of glucose?		c)3		d) 4
	a) 6.02×10^{23} b) 3×10^{23} What is the mass of 10^{-3} moles of MgSO ₄ ?		c) 12.02×10^{23}	d) 1.5 x	10^{23}
	a) 1.2g b) 0.12 g Pressure in vaporizing chamber in mass spectrometer in torr is		c) 12g		d) 1.5g
	a) 10^{-5} to 10^{-6} b) 10^{-6} to 10^{-7}	c) 10 ⁵ to 1	07	d) 10 ⁵ to 10 ⁶	
23)	According to X-rays diffraction diameter of an atom is a) 2x10 ¹⁰ m b) 2 Å ⁰		c) 0.2nm	<u>d) All</u>	
	Which of the following statements is not true? (sotopes with even atomic masses are comparatively abundant. b) Is	votones with eve	n stomic masses and	d add stamic numbers	are comparatively abundant
c)]	sotopes with even atomic masses and odd atomic numbers are compa				
25)	The number of moles of CO ₂ which contain 8.0g of oxygen (a) 1 (b) 1.5 (c) 0.25	(d) 0.50			
26)	One mole of SO ₂ contains: a) 6.02×10^{23} atom of oxygen b) 18.1×10^{23} molecules of SO ₂	c) 6.02×10^{23} at	oms of Sulphur d	l) 4g of atoms of SO ₂	
27)	A limiting reactant is the one which: a) Is taken in lesser quantity in grams as compared to other reaction			quantity in volume as	compared to the other
40)	c) Carries the maximum amount of the product which is required.			amount of the produc	and the second of the second control of the second
28)			erage masses of isot	opes c) Mass of	atom is itself fractional
29)	d) Atomic masses are average masses of isotopes proportional Which are building blocks of matter?	to their relativ	e abundance.		
30)	a) Elements b) Ions c) Molect Metals undergo loss of electrons & gain:	ules	d) Atoms		
	a) Positive charge b) Negative charge One amu is equal to:	c) Neutral		d) 'a' & 'b'	
70.000	(a) $1.661 \times 10^{27} \text{ kg}$ (b) $1.661 \times 10^{-27} \text{ kg}$	(c) 1.661 x		(d) 1.661 x 10 ⁻²⁷ gn	\mathbf{n}_{a}
	A compound contains 50% Sulphur and 50% oxygen by mass, E (a) SO ₂ (b) SO ₃	mpirical formi	11 a: (c) S₂O₃	(d) SO	
33)	Which has maximum mass: (a) 20 gm P (b) 5 moles of H ₂ O	(c) 12 x 10	²⁴ atoms of H <u>(d) 2 n</u>	nole Na ₂ CO ₃	
34)	How many carbon atoms are present in 90gm glucose: (a) 6.02×10^{23} (b) 1.80×10^{23}	(c) 1.8 x 10		(d) 1.8 x 10 ²⁴	
35)	27 g is the mass of element of 1 mole. The element is:	(c) 1.0 x 10		s	
36)	(a) Mg Mass of one mole of chlorine gas is:	/ 5 ==	(c) Cu	(d) Cr	
37)	(a) 32 gm (b) 35.5 gm The number of atoms present in 0.5 moles of Na is:	(<u>c) 71 gm</u>		(d) 46 gm	
	(a) 1×10^{23} (b) 6.02×10^{23} Which contains maximum number of atoms:	(c) 2.04 x	10^{23}	(d) 3.01×10^{23}	
038.48.05	(a) 6 moles S (b) 2 mole Sr The volume occupied by 1.6 gm of O ₂ at STP is:	(<u>c</u>) 5 moles	SSO ₂	(d) 44.8 dm ³ of CO	2
	(a) 22.4 dm^3 (b) 2.24 dm^3	(c) 1.12 dn	<u>n</u> ³	(d) 112 dm^3	
40)	1 mole of glucose has	?NA	(d) 10NA		

41)	Which rays are passed through molecules to convert into molecules			N.D.
42)	a) X-rays b) Alpha rays Atomic mass of an element is determined with reference to C at	c) <u>Both 'a</u> com & expressed in:	* & *b*	d) Beta rays
43)	a) Grams b) Moles Fractional atomic masses can be calculated from:	<u>c) amu</u>		d) mg
ē.		ce to C isotope	c) Given mass of iso	tope d) None
	a) Molecular formula b) Empirical formula	c) Both 'a	<u>ı' & 'b'</u>	d) Combustion analysis
	Which technique is suitable to determine empirical formula of a a) X-rays spectroscopy b) Mass spectrograph		diffraction	d) combustion analysis
46)	Concept of molar volume is applicable to a) gases b) Liquids c) Solids		d) Both 'a'	' & 'b'
47)	Which is suitable for a limiting reactant? a) Partially consumed b) Doesn't control th	e reaction	c) Cause to stop	a reaction d) All
48)	Minimum number of molecules is present in:	-		
49)	a) 1 mole of H ₂ O b) 98g of H ₂ SO ₄ Which gas occupied maximum volume at STP?	c) 28g of N		d) None
50)	a) $16g\ \mathrm{CH_4}$ b) $32g\ \mathrm{O_2}$ Number of atoms of ${}_{\bullet}\mathbf{C}^{\epsilon}$ in 1mole of Sucrose is:	c) 1mole F	on	d) None
51)	a) $6(N_A)$ b) $12(N_A)$ The efficiency of a reaction is shown by:	c) 22(N _A))	d) 11(N _A)
52)	a) Actual Yield b) Theoretical Yield To identify a limiting reactant following steps are involved:	c,) % Yield	d) Positive Yield
	a) 02 steps b) 03 steps Number of molecules in 10g of H ₃ PO ₄ is:	C	c) 04 steps	d) 05steps
	a) 3.31×10^{23} b) 6.14×10^{22}	C	c) 1.842 x 10 ²¹	d) 9.99 x 10 ²¹
54)	No. of molecules of water in 10g ice is: a) 6.68×10^{22} b) 9.99×10^{22}	9	c) 3.31 x 10 ²³	d) 1.842 x 10 ²¹
55)	Gram atoms in 0.1kg of silicon is: a) 4.16moles b) 3.56moles	c) 6.01moles	\$ 0	.0043moles
56)	Gram atoms in 0.1g of Na is: a) 0.0043moles b) 3.56moles	*	c) 4.16moles	d) 6.01moles
57)	1g molecule of sucrose is:		-11	The Administration of the desired and the desired of the desired o
58)	a) 98g b) 180g 8.657g of a compound were decomposed into its elements & gav		s:	d) 106g
59)	a) 11.11 b) 60.50 Chlorine has two isotopes which are:		2) 11.20	d) 60.26
60)	a) Cl (35) & Cl (36) b) Cl (36) & Cl (37) Relative atomic mass of H is:	C) Cl (35) & Cl (38)	d) Cl (35) & Cl (37)
61)	a) 1.0008amu b) 1.008amu The mass of one mole of electrons is:		2.16amu	d) 1.16amu
5	(a) 1.008 mg (b) 0.55 mg The number of atoms present in 0.5 moles of Na is:	(c) 0.184 mg	(d) 1.673 t	ng
******	(a) 1×10^{23} (b) 6.02×10^{23}	(c) 2.04×10^{23}	(d) 3.01 x	10^{23}
	How many isotopes are present in Pd: (a) Four (b) Five (c) Six	(d) Sever	1	
64)	The percentage of oxygen in water is: (a) 80% (b) 8.8% (c) 88.8	3%	(d) 9.8%	
65)	The number of moles of NO ₂ which contains 16 g of oxygen: (a) 0.25 (b) 0.50	(c) 1.0	(d) 1.50	
	The volume occupied by 2.0 g of Ne at STP: (b) 2.24 dm ³ (c) 1.1		e 4	
	A sample in the ionization chamber of mass spectrometer is ioni (a) Electrons (b) Proton		(d) Nucle	
68)	Which one of the following pair is not iso-electronic:	500 C 100 Particular (15 CB 45 CC 600 47 CB 47 C	(d) Nucle	
	(a) CO, N ₂ (b) Na, Ne 180 g of glucose contains number of hydrogen atoms:	(c) Ca. Ar		(d) K ⁺ , Ar
	(a) 3.6×10^{23} (b) 6.0×10^{23} Who first of all determined atomic masses of elements:	(c) 7.2×10^{23}		(d) 7.2×10^{24}
	(a) J. Berzelius (b) J.J. Thomson (c) Johon Which of the following elements has nine isotopes:	Dalton	(d) Democritus	
-	(a) Ca b) Pd Which of the following will form single peak in mass spectrogra	nh.	(c) Cd	(d) Sn
	(a) Iodine (b) Arsenic	(c) Fluorine	(d) All of	'these
	Which one of the following contains maximum number of molec (a) $\underline{16.0 \text{ g of CH}_4}$ (b) 16.0 g of O_2	cules: (c) 16.0 g of SO ₂		(d) 16.0 g of H ₂ O
74)	Atoms of all the elements always contain in nucleus: (a) Proton (b) Proton and neutron	(c) Neutr	ron	(d) Electron and neutron
75)	Actual yield of a chemical reaction is always less than theoretica (a) Side reactions (b) Wastage of products	al yield because:	(c) Reversible reaction	ns (d) All of these
76)	Mass of sodium in 53 g of Na ₂ CO ₃ is: (a) 23 g (b) 46 g	(c) 92 g	(d) 106 g	! !
77)	20 moles each of Mg and O2 react to form MgO. The amount of	MgO formed would be	:	
78)	(a) 20 g (b) 400 g The number of peaks obtained in mass spectrometry shows:	(c) 800 g		
79)	(a) Charge on isotope (b) Mass of isotope Which of the following ion formation is always exothermic:	(c) Number of isotopes	(d) Rela	tive abundance of isotopes
	(a) Uni-negative (b) Uni-positive The number of isotopes of elements with even mass number and	(c) Di-ne d even atomic number a		(d) Di-positive
	(a) 280 (b) 300 (c) 154 Percentage of oxygen in calcium carbonate is:		(d) 54	
	(a) 40% <u>(b) 48%</u>	(c) 12%	(d) 16%	
82)	Which one of the following substances is used as CO2 absorber (a) Mg(ClO ₄) ₂ (b) 50% KOH (c) Lime		s: none of these	

b) Bromine

a) Fluorine

```
Which one of the following properties is always in whole number:
83)
      (a) Atomic mass
                                             (b) Atomic radius
                                                                                       (c) Atomic volume
                                                                                                                                (d) Atomic number
      What is the mass of one mole of Iodine:
     (a) 53 g
                                  (b) 74 g
                                                                     (c) 127 g
                                                                                                        (d) 254 g
     0.5 moles of H<sub>2</sub>SO<sub>4</sub> contains —XI moles of oxygen atoms —XI is:
      (a) 0.5
                                             (b) 1.0
                                                                    (c) 2.0
                                                                                                         (d) 4.0
      What will weigh more:
86)
      (a) 2 mole N<sub>2</sub>
                                              (b) 1 mole O<sub>3</sub>
                                                                                                                     (d) 2 mole CO2
                                                                                (c) 2 mole O2
     The number of electrons in one mole of H<sub>2</sub> is:
      (a) 6.02 \times 10^{23}
                                              (b) 3.01 \times 10^{23}
                                                                                (c) 12.04 \times 10^{23}
                                                                                                                     (d) Indefinite
     CO+ is an example of:
      (a) Free radical
                                  (b) Cationic molecular ion
                                                                                            (c) Anionic molecular ion
                                                                                                                                          (d) Stable molecule
     Relative atomic mass is the mass of an atom of an element as compared to the mass of one atom of:
     (a) Oxygen
                                              (b) Hydrogen
                                                                                            (c) Nitrogen
                                                                                                                                            (d) Carbon
     Large number of isotopes are known for the elements whose masses are multiple of:
      (a) Two
                                 (b) Four
                                                                                                                    (d) Eight
     The least number of molecules is present in 30 g of:
      (a) N<sub>2</sub>O
                                  (b) NO
                                                                    (c) NO
                                                                                             (d) N<sub>2</sub>O<sub>2</sub>
     How many atoms of carbon are present in 18 g of glucose
      (a) 6.02 \sqcap 10^{22}
                                              (b) 3.6 \sqcap 10^{23}
                                                                                (c) 6.0 - 10^{23}
                                                                                                                     (d) 3.6 - 10^{24}
     The relative atomic mass of oxygen according to C ∟12.000 a.m.u standard is:
93)
                                                                                                                                             (d) No relation
      (a) Less than 16
                                              (b) More than 16
                                                                                                        (c) 16 only
     An organic compound contains 2% of sulphur. The molar mass of compound is:
                        (a) 200
                                               (b) 800
                                                                                  (c) 1600
                                                                                                                      (d) 3200
      What mass of oxygen is consumed by the complete combustion of 21.0 gram of ethylene?
                                                  b) 72.0 g
             a) 24.1 g
      If proton number of two atoms is same then it can be concluded that
                                                      b) Compounds of both atoms will be similar in reactivity towards other compound
      a) They are isotopes
                                                     d) Both have same melting point
      c) Both have same colours
     Empirical formula and formula unit of an ionic compound
            a) May be similar or different
                                                      b) Are always different c) Are always similar d) Ionic compounds don't have any empirical formula
       Which of the following statement is correct?
a) The NO.of negative ions having group of atoms is less common
                                                                              b) The NO.of peaks in mass spectrum gives number of isotopes
c) Elements with odd atomic number possess more than two stable isotopes d) The current strength of each isotope of an element gives mass number
      A mole of any substance is related to
            a) Number of particles
                                                      b) Mass of a substance
                                                                                           c) Volume of gaseous substances
                                                                                                                                                     d) All of these
      The number of gram molecules of oxygen in 6.02 x 10<sup>24</sup> CO molecules is
100)
            a) 1g molecules
                                        b) 5g molecules
                                                                          c) 2 g molecules
101) Boron has two stable isotopes, \overline{B_{10}, (19%) and B_{11} (81%). Find the average atomic weight of boron?
                                                                                 d) 9.6
            a) 11.2
                              b) 12.6
                                                     c) 10.8
102) Which among the following is the heaviest?
            a) one mole of oxygen
                                               b) 100 amu of uranium
                                                                                        c) One molecule of sulfur trioxide
                                                                                                                                              d) 44 g carbon dioxide
103) A compound possesses 8 % sulfur by mass. The least molecular mass is
            a) 200
                                      b) 155
                                                                c) 400
104) The incorrect statement for 14 g of CO is
            a) It occupies 2.24 liter at STP
                                                                   b) It corresponds to 0.5 mol of CO
            c) It corresponds to same mol of CO and N2
                                                                  d) It corresponds to 3.01 \times 10^{23}
105) Which of the followings is not true for atom?
a) It can always exist independently b) It is composed of subatomic particles c) It can be ionized 106) From the complete decomposition of 20 g CaCO_3 at STP the volume of CO_2 obtained is
                                                                                                                             d) It can combine with other atoms
                                       b) 44.8 L
            a) 2.24 L.
                                                                   c) 4.48 L
      The volume of 1.0 g of hydrogen in liters at STP is
            a) 22.4 L
                                   b) 11.2 L
                                                               c) 1.12 L
                                                                                           d) 44.56 L
       Which has maximum number of molecules?
            a) 7 g N_2
                                    b) 18 g NO<sub>2</sub>
                                                                     c) 2 g H<sub>2</sub>
                                                                                                                         d) 16 g O<sub>2</sub>
      In the reaction, 4\text{NH}_3 + 5\text{O}_2 \rightarrow 4\text{NO} + 6\text{H}_2\text{O}, when one mole of ammonia and one mole of oxygen are made to react to completion, then
a) 1.0 mol of H<sub>2</sub>O produced b)1.5 mol NO formed c) All the oxygen is consumed d) All ammonia co
                                                                                                                                         d) All ammonia consumed
     The Number of unstable isotopes produced due to artificial means is
     a) 300
                        b) 400
                                                 c) 250
                                                                            d) None of above
    In the mass spectrometer the atoms or molecules are ionized by using
     a) alpha-particles
                                       b) gamma-rays
                                                                            c) Electrons
                                                                                                             d) All of these
     The maximum number of molecules is present in
     a) 15 L of H<sub>2</sub> gas at STP
                                                 b) 1.5 g of H<sub>2</sub> gas
                                                                               c) 5 L of N2 gas at STP
                                                                                                                                d) 5 g of O2 gas
     For equal mass which of the following pairs of gases contain equal number of molecules?
     a) CO<sub>2</sub> and NO<sub>2</sub>
                                        b) NO and CO
                                                                          c) CO and CO2
                                                                                                          d) N2O and CO2
     x liter of carbon monoxide is present at STP. It is completely oxidized to CO<sub>2</sub>, the volume of CO<sub>2</sub> formed is 11.207 liters at STP. What is the value of X in
                  <u>a) 11.2</u> b) 10.2
                                                     d) 32.2
      liters?
                                         c) 21.2
     The mass spectrum of an unknown element Z shows nine peaks. The element Z may be
                               b) Silver
                                                        c) Palladium
     Given the following equation
                                                                          >2KCl + 3O<sub>2</sub>
                                                      2KClO<sub>3</sub>-
     The maximum mass of O2 produced by the decomposition of 0.3 NA formula units of KClO3 is
     a) 14.4 g
                                      b) 148 g
                                                                c) 48 g
                                                                                                              d) None of these
     An atom is
     a) Smallest invisible particle in an element
                                                                      b) Smallest particle of an element which can undergo a chemical reaction
     c) Building block of an element
                                                                      d) Always smaller than molecule
     10 moles of H<sub>2</sub>O contains
     a) 100 moles of bonds
                                               b) 25 moles of hydrogen bonds
                                                                                                       c) 30 atoms
                                                                                                                                 d) 100 moles of electrons
     The total number of moles of sulfur required to produce 100 moles of sulphuric acid is
     a) 100
                           b) 50
                                                  c) 150
                                                                           d) 200
     8 g of \overline{O}_2 reacts with 8 g of H_2 to produce water. Which order is correct according to limiting and non-limiting reactant respectively?
                                                                                                         d) Both are non-limiting reactant
                           b) O2, H2
                                                   c) Both are limiting reactants
     a) H<sub>2</sub>, O<sub>2</sub>
     The number of atoms in 4.25 g of NH<sub>3</sub> is approximately
                                  b) 4 \times 10^{23}
     The element showing single peak in mass spectrograph is
```

c) Chlorine

d) Neon

123)	a) is twice that of 70 g of N b) is half as 2 gran		c) Is half that of 2	
	/ 	C ₂ H ₂ O ₄	d) None of above	rmula of the acid is
125) 126)	a) 0.02 b) 1.25×10^{-2} c) 3.125×10^{-2}		toms? 2.5 x 10 ⁻²	
127)	a) 10 b) 20 c) 6.02×10^{24}	d) <u>1.2 x 10²⁵</u>		
100	a) 4.0 moles of H ₂ SO ₄ b) 2 moles of H ₂ SO ₄ 7.5 gram of a gas occupies 5.6 liters as STP. The gas is	c) 0.5 moles	of H ₂ SO ₄	d) None of above
129)	a) CO <u>b) NO</u>	c) CO ₂ nat is mass percentage o	of urea in solution?	d) N ₂ O
	a) 75 b) 50 c) 46.146	d) 25		
130)	One mole of CH ₄ contains A) 4 g atoms of hydrogen molecules of CH ₄ B) 6.02 x 10 ²³ carbon	atoms	c) 3 g atoms of carbon	d) 1.810×10^{23}
131)	0.25 mol of P ₄ molecules contains	2 x 10 ¹⁹	d) 8.086 x 10 ²³	
132)	If 6.40 g of an unknown molecular species contains 12.04 x 10^{22} m	olecules, the species if;	training the second training to the second training training to the second training t	
133)	a) O ₂ b) N ₂ c) CO ₂ Which formula shows highest percentage of nitrogen of nitrogen l	d) SO ₂ by mass		
	a) NH_3 b) N_2H_4 c) NO_2	d) NH4OH		~ ()
134)	An ion is formed when a) An electron is added to an atom.	b) An electron is remove	d from an atom	
		d) All of the above	d from all atom.	
135)	[1] 제공인 경기 제하여 하다 1 120 4 120 4 120 121 121 121 121 121 121 121 121 121	N 6141	D Manual 1	
136)	Ions and the atoms from which they are formed above	e) Absorbed	d) May release or abso	d) All of these
137)	a) Same chemical properties Which one of the following pair has the same empirical and molec a) C ₆ H ₆ , NaCl b) C ₆ H ₁₂ O ₆ , C ₁₂ H ₂₂ O ₁₁		d) NH ₃ , C ₃ H ₄ O ₂	u) All of these
138)	a) 80% b) 8.8% c) 88.8%	d) 9.8%	d) 14113, C ₃ 11 ₅ O ₂	
139)	The largest number of H ⁺ are produced by complete ionization of	A CONTRACTOR OF THE CONTRACTOR	£11.50 A. A.	all of the above
140)		,	e of these	an or the above
141)	A sample of pure matter is			
142)	a) Element b) Substance c) Compo- How many moles of CO ₂ which contains 8.0 gm of oxygen		d) Mixture	
143)	a) 0.25 b) 1.0 c) 0.50 Which of the following is not correctly matched about the applica a) No. of atomic ions peaks: no. of isotopes		neter elative abundance of isotop	oes
	c) m/e ratio : mass of isotopes	d) Position of atomic ic	on peaks on abscissa : Isot	
144)	How many moles of atoms are present in 7 moles of sulfuric acid? a) 49 b) 21	c) 7 x 6 x 10 ²	13	d) 7
145)	Compared to 88g of carbon dioxide, 88g of propane contains a) Less atoms b) The same number of molecules	c) The same number	er of atoms	d) More molecules
146)	Which of the following contain only empirical formulas?	c) C ₅ H ₁₀ , N ₂ O ₄ , H ₂ O ₂	d) C ₃ H ₈ , N ₂ 0 ₄ , H	
147)	1 gram molecule refers to:			
4.40)	a) Amount in grams equivalent to 1 mole of an atom c) Amount in grams equivalent to 1 mole of a molecule or a compound	1	ns equivalent to 1 mole o d) Amount in g	rams of an ionic compound
148)	a) $4\times6.022 \times 10^{23}$ b) $2\times6.002 \times 10^{25}$	c) 1 x 6.022 x 10 ²³	<u>d) 1</u>	None of these
	1 gram formula refers to: a) Amount in grams equivalent to 1 mole of an atom b) Amount in gra	ms equivalent to 1 mole	of a covalent compound	
150)	c) Amount in grams equivalent to 1 mole of an ionic compound d) A			
150)	How many electrons have to be removed to ionize 1.0 x 10 ⁻⁶ mol of a) 6.02 x 10 ⁻²³ / 1.0 x 10 ⁻⁶ b)1.0 x 10 ⁻⁶	1 Ne atoms to Ne 10ns ? 0-6 x 6.02 x 10 ²³ / 20. <u>2</u>	(
		$0^{-6} \times 6.02 \times 10^{23} / 9.65 \times 10^{23}$	10 ⁻¹	
151)	Mg reacts with HCl as per the following reactions: Mg(s) + 2HCl			
152)	5604 cm ³ of H ₂ gas at STP contains of hydrogen atoms:	an equal stoichiometric $d)1.50 \times 10$		d)None of these
153)	Gram atoms of hydrogen in 5.05g H ₂ :			
154)	a) 5.50 b)2.25 c)5.45 Mass in grams of 10 moles of aspartame (C ₁₄ H ₁₈ N ₂ O ₅):	<u>d)2.50</u>		10000-
155)	a) 29400g % of the nitrogen in urea (NH ₂ CONH ₂):	c)2850g		d)2800g
156)				
157)	a) Increased radius 'r' In a mass spectrometer, increasing the electric field with constant		c) No effect	d) Increased ionization
	a) <u>Increased radius 'r'</u> b) <u>Increased ionization</u>	c) Decreased radiu	ıs 'r'	d) None of the above
158)	When 0.5 moles of Al ₂ (SO_4) ₃ are dissolved in water, the total numl a) 1.2×10^{23} b) 3.0×10^{23} c) 1.5×10^{23}		ed? d)2.5 x 10 ²³	
159)	A smuggler was caught by Airport police and 24 g of diamond wa	s recovered from him.	How many atoms of carb	oon he was carrying?
160)	a) 6×10^{23} b) 1.8×10^{24} c) 1.2×10^{24} Which one is a mono-isotopic element?)24	d)2.4 x 10 ²⁴	
161)	a) Cl b) H <u>c) F</u>		d) Cd nore abundant?	
/	a) Negatively charged b) <u>Positively charged c)</u>	H ⁺ ions	d) Equal positive ar	nd negative ions

162)	The height of the peak in mass spectrum shows: a) Number of isotopes b) Mass Number		a) B alativa	ahun dan as	d) Number of a	ratana
163)	a) Number of isotopes b) Mass Number The separation of different isotopes in the mass spectro	ometer is done o		abundance	d) Number of p	TOTOLIS
164)	a) Different amounts of positive change on each ion <u>b</u>) Dif Equal volumes of CO and N ₂ are taken in identical con a) CO < N ₂ b) N ₂ < CO	ditions, The co	165	between masses of	m value d) Velocit two gases is? All of these	ies of ions
165)	a) $CO < N_2$ b) $N_2 < CO$ The technique that is not used to separate isotopes is:	<u>c)</u>	$CO = N_2$	d) .	All of these	
166)	a) Thermal diffusion b) Ultracentrifuge Combustion analysis is performed for the determination		c) Distilla		d)Extraction	
167)	 a) The molar mass of the compound c) The empirical formula of the compound The stoichiometric calculations for a chemical reaction 	d)		mula of the substand ens present in an org		
168)	 a) Actual yield b) Theoretical yield Which of the following not has equal number of atoms a) 3 g O₃ b) 4 g SO₂ 	c) Percentag as that in 6g M c) 4 g Ca		d) Selectivity 96) d) 5 g SO ₃		
169)	a) 3 g 03 The mass of 0.5 mole of Aluminum is: (a) 13 g (b) 13.5 g	, 9	14 g	(d) 27 g	è	
170)	Dumpster's mass spectrometer was design for the ident a) Gaseous state b) Plasma state	tification of the c) Solid state	isotopes of the d)	Liquid state	,	•
171)	That chemical analysis in which all the elements presen a) Quantitative Analysis b) Qual	it in a compoun itative analysis		called ravitational analysis	d) Vo	lumetric analysis
172)	Empirical formula of glucose is a) CH-O	b) C ₂ H ₄ O ₂	<i>c)</i> (1	c) C ₆ H ₁₂ O ₆	d) CH	
173)	Out of 280 isotopes which occur in nature the radioacti		D 10	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
174)	a) 116 b) 126 c) 30 27g of Al will react completely with how much mass of a) 8g of Oxygen b) 16g of		O ₃ d) 40 c) 32g of (Oxvoen 🛕	d) 24	g Oxygen
175)	How many molecules are present in one g of Hydrogen a) 6.02×10^{22} b) 6.02×10^{23}	?	2.0115 x 10 ²³	d) 3.01x 10 ²⁵		<u>L OAYEM</u>
176)	What is the weight of oxygen which occupies 21 liters a a) 45g b) 60g	t S.T.P? c) 30g		d) 50g)	
177)		x 10 ²³ atoms Na		c) 6.02×10^{23} f	formula units	d) a &c
178)	One liter of a gas at S.T.P weight 1.16g. It can possible to a) C2H2 b) CO	c) O ₂			d) CH ₄	
179)	How many formula units are there in 225g of KCl? a) 7.0x10 ²³ b) 1x10 ²³	<u>c)</u>	18.06x10 ²³		d) 4x10 ²³	
180)	Which compound doesn't have molecular formula a) \underline{NaCl} b) N_2		c) Cl ₂		$d)H_2O$	
181) 182)	3 moles NH ₃ is equals to? a) 67.3 dm ³ b) 18 dm ³ The pressure in vaporizing chamber in mass spectrome		1 dm³	d) None of	them	
183)	a) 10^5 to 10^6 b) 10^6 to 10^7 The smallest collection of ions in a compound is called		10 ⁵ to 10 ⁷		d) 10 ⁵ to 10 ⁶	
	a) Mass b) Atom		c) Molec	ule	d) Formula unit	
184)	A ring of Diamond is made up of 6g C. How many atom a) 6.023×10^{23} b) $0.5x6.023 \times 10^{23}$ Formation of Uni-negative ion is	is of C are in it		c) 6.023 x 10 ²¹	d) 0.6	x6.023 x 10 ²³
	a) Exothermic Which of the following is not mono-Isotopic element		c) Both a &	% b	d) None	
	a) Arsenic b) <u>Uranium</u> The mass of 2 moles of nitrogen gas is	c) Iodine		d) Gold		
188)	a) 14g b) 28g <u>c) 56g</u> Large number of isotopes are known for the elements w		d) 0.5g re multiples of			
189)	a) 3 b) 4 c) 2 In mass spectrometer the potential difference applied in a) 500-1500 b) 500-2000		1000-2000	d) 500-:	2500	
190)	Nickel has isotopes a) 3 b) 4 c) 5	12 6 3	1000-2000	d) 11	2300	
191)	An ordinary microscope can measure the size of an obj a) 50nm b) 500nm	c) 500		a. A. A. A. Mariana and a con-	d) 0.5nm	
192)	Number of moles of H ₂ O will produced if 4moles of H ₂ a) 1 b) 2 OHLY CO is the formula of	c) 3	ess O ₂	d) 4		
193)	(NH ₂) ₂ CO is the formula of a) <u>Urea</u> b) Sugar The formula of Camphor is	c) Amino acid	ļ	d) Caustic soda		
	a) C ₁₀ H ₁₅ O b) C ₁₁ H ₂₂ O ₁₁ Empirical Formula of Vitamin C is	c) C ₁₀ H ₂₆ O	(d) C ₁ H ₃ O ₁		
	a) $\hat{C}_1H_2O_1$ b) $C_{11}H_{22}O_{10}$ Molecular mass of CaCO ₃	c) C ₃ H ₄ O ₃		d) C ₁₁ H ₂₂ O ₁₁		
197)	a) 100g b) 90g Masses of atom ranges	c) 120	24	d) 180		14
198)	a) 10^{25} to 10^{27} g b) 10^{-27} g to 10^{-25} g How many times hemoglobin is heavier than one hydro		c) 10 ⁻²⁴ to	erconversations		⁴ to 10 ²⁸ g
199)	a) 38000 <u>b) 68000</u> Molecular ions can be produced by bombardment of a) Beam of electrons b) X-Ray	c) 58000	c) Alpha P	d) 4800		d) All
200)	C-12 taken as scale for atomic masses measurement be		c) Aipiia P	aracios		u, All
	a) Its Stable b) Its abundant Electrometer is that which		c) Its mass is exact	12.0	d) All	
	a) Produced current b) Receiv	e isotopic ions		c) Called ion Colle	ctor	d) All
202)	The largest number of molecules are present in: (a) 3.6 gm H_2O (b) 4.8 gm C_2H_5OH		(c) 2.8 gm C0	0	(d) 5.4 gm N ₂ O ₅	