



DELHI POLICE CONSTABLE

By

ONE OF THE MOST EXPERIENCED FACULTY TEAM FROM DELHI

100+ Hrs | 60 Days



DELHI POLICE – CONSTABLE - 60 DAYS COURSE



NEW BATCH STARTS 17th AUGUST 2020

Session Time - SESSION -1: 3:30 PM TO 4:30 PM & SESSION- 2: 5: 00 - 6:00 PM

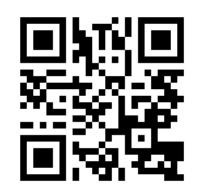
Course Benefits



- Live Interactive Classes on Zoom
- Accessible from Desktop or Mobile
- Access to recorded classes
- Weekly mock tests to evaluate progress
- PDF Study material to boost your preparation

- Special Q&A Sessions
- Daily Current Affairs
- Special Vocabulary Sessions
- Dedicated Telegram group
- Personalized Counselling Sessions

For more details follow the link or Scan the QR Code https://bit.ly/33MNcpb



broton => + 1.6 ×1519C

election => - 1.6 x 16-19C



Atom = Neutral



Nucleus -

No. of e = No. of bt

Atom > (+ Ve)

(e-emitle)

Atom > (-ve)

Proton

Neutron

Electron

Table 4.1: Composition of Atoms of the First Eighteen Elements with Electron Distribution in Various Shells

	Name of Element	Symbol	Atomic Number	Number of	Number of	Number of		stribu Electi		of	Vale- ncy
	The second secon			The second secon		Electrons	K	L	M	N	
	Hydrogen	Н	1	1	2:	1	1	9	-	_	1
	Helium	He	2	2	2	2	2	22	20	-	0
	Lithium	Li	3	3	4	3	2	1		*	1
	Beryllium	Ве	4	4	5	4	2	2	8.00	-	2
	Boron	В	5	5	6	5	2	3		=	3
1	Carbon	С	6	6	6	6	2	4	-	-	4
	Nitrogen	N	7	7	7	7	2	5		=	3
7	Oxygen	0	8	8	8	8	2	6	122	-	2
	Fluorine	F	9	9	10	9	2	7	100	-:	1
	Neon	Ne	10	10	10	10	2	8	4500	-	0
	Sodium	Na	11	11	12	11	2	8	1	-	1
	Magnesium	Mg	12	12	12	12	2	8	2	-	2
	Aluminium	Al	13	13	14	13	2	8	3	8	3
	Silicon	Si	14	14	14	14	2	8	4	=	4
	Phosphorus	P	15	15	16	15	2	8	5	=	3.5
	Sulphur	s	16	16	16	16	2	8	6		2
\	Chlorine	C1	17	17	18	17	2	8	7	2	1
{	Argon	Ar	18	18	22	18	2	8	8		0

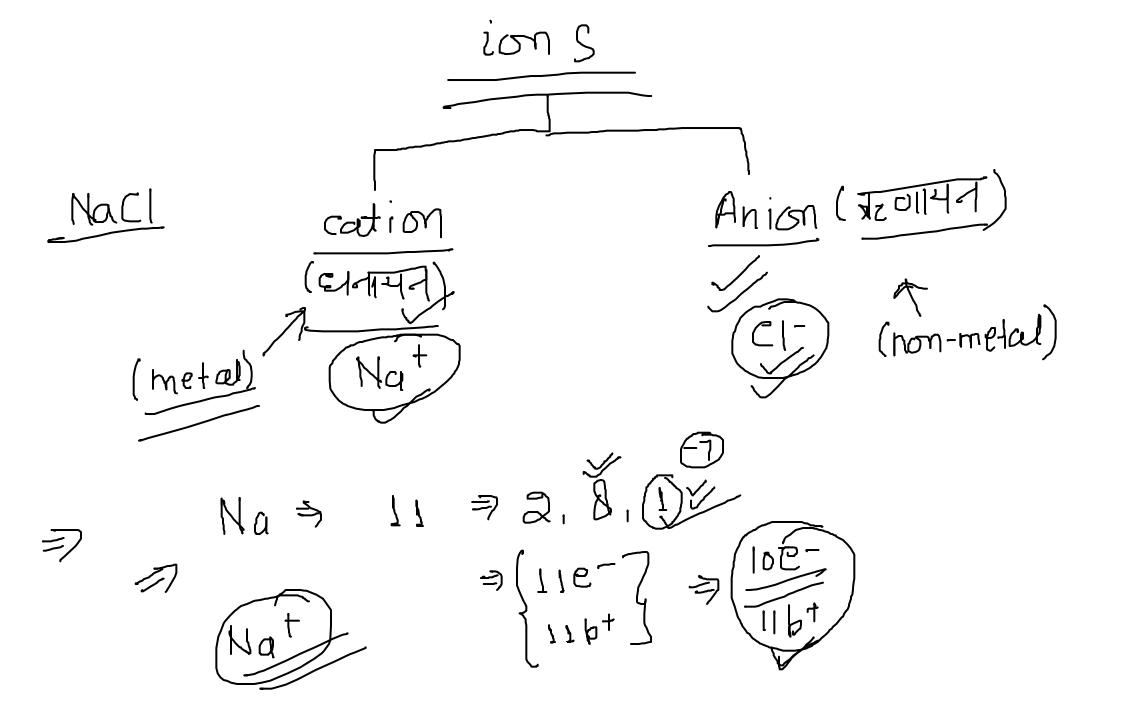
Atomic Mass and Valency of First 30 Elements

ELEMENT	ATOMIC NUMBER	ATOMIC MASS	VALENCY (-1), +1			
Hydrogen	1	1.0079				
Helium	2	4.0026	o			
Lithium	3	6.941	+1			
Beryllium	4	9.0122	+2			
Boron	5	10.811	-3, +3			
Carbon	6	12.0107	(+2), +4			
Nitrogen	7	14.0067	-3, -2, -1, (+1), +2, +3, +4, +5			
Oxygen	8	15.9994	-2			
Fluorine	9	18.9984	-1, (+1)			
Neon	10	20.1797	0			
Sodium	11	22.9897	+1			
Magnesium	12	24.305	+2			
Aluminum	13	26.9815	+3			
Silicon	14	28.0855	-4, (+2), +4			
Phosphorus	15	30.9738	-3, +1, +3, +5			
Sulfur	16	32.065	-2, +2, +4, +6			
Chlorine	17	35.453	-1, +1, (+2), +3, (+4), +5, +7			
Argon	18	39.948	0			
Potassium	19	39.0983	+1			
Calcium	20	40.078	+2			
Scandium	21	44.9559	+3			
Titanium	22	47.867	+2, +3, +4			
Vanadium	23	50.9415	+2, +3, +4, +5			
Chromium	24	51.9961	+2, +3, +6			
Manganese	25	54.938	+2, (+3), +4, (+6), +7			
Iron	26	55.845	+2, +3, (+4), (+6)			
Nickel	27	58.6934	+2, +3, (+4)			
Cobalt	28	58.9332	(+1), +2, (+3), (+4)			
Copper	29	63.546	+1, +2, (+3)			
Zinc	30	65.39	+2			

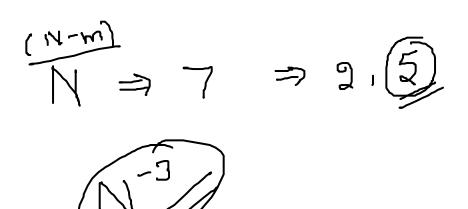


CHARGED PARTICLES

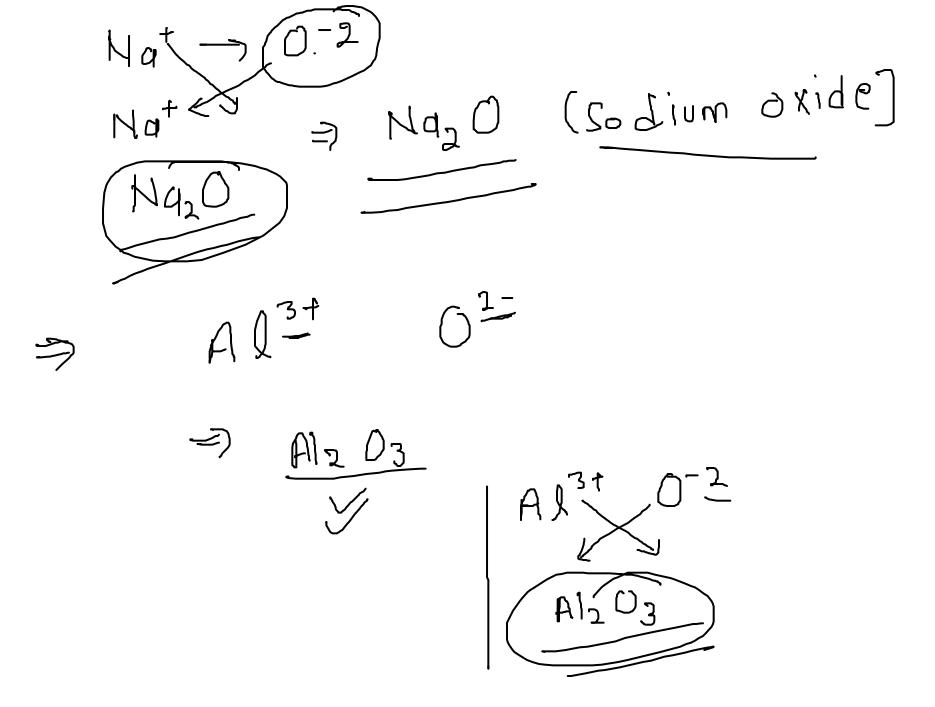
10th WETETETHE 10hs Metal + Nonmetal => compound (ionic compound)



Mg
$$\Rightarrow$$
 12 \Rightarrow 13 \Rightarrow 12 \Rightarrow 13 \Rightarrow 13 \Rightarrow 14 \Rightarrow 15 \Rightarrow 17 \Rightarrow 18 \Rightarrow 18 \Rightarrow 18 \Rightarrow 19 \Rightarrow 19 \Rightarrow 19 \Rightarrow 19 \Rightarrow 10 \Rightarrow 1

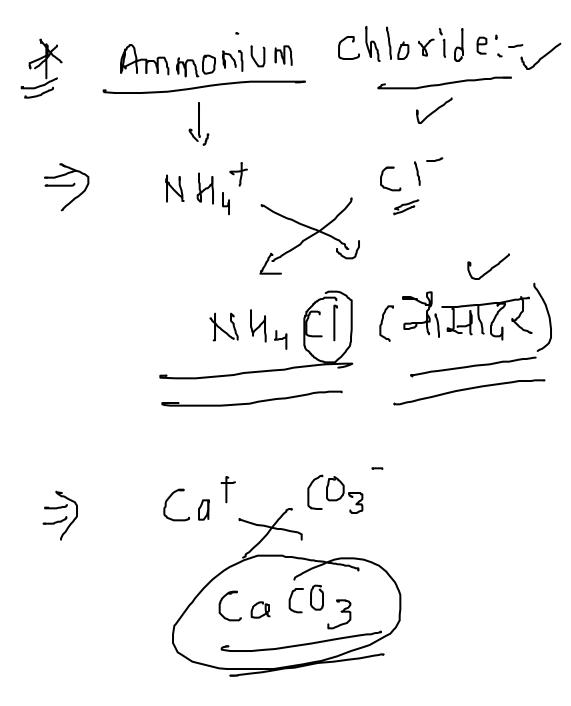


metal non-metal CI- [chloride] 0-2 [0 xide] Mg 2t * \$ Sodium ,



Polyationic Ions (ल्ड्परमा गावक ड्रायन) Ammonium = NH Sulphide => S-2 Carbonate => CO3 Phosphate => PO4-3 Sulphite 3

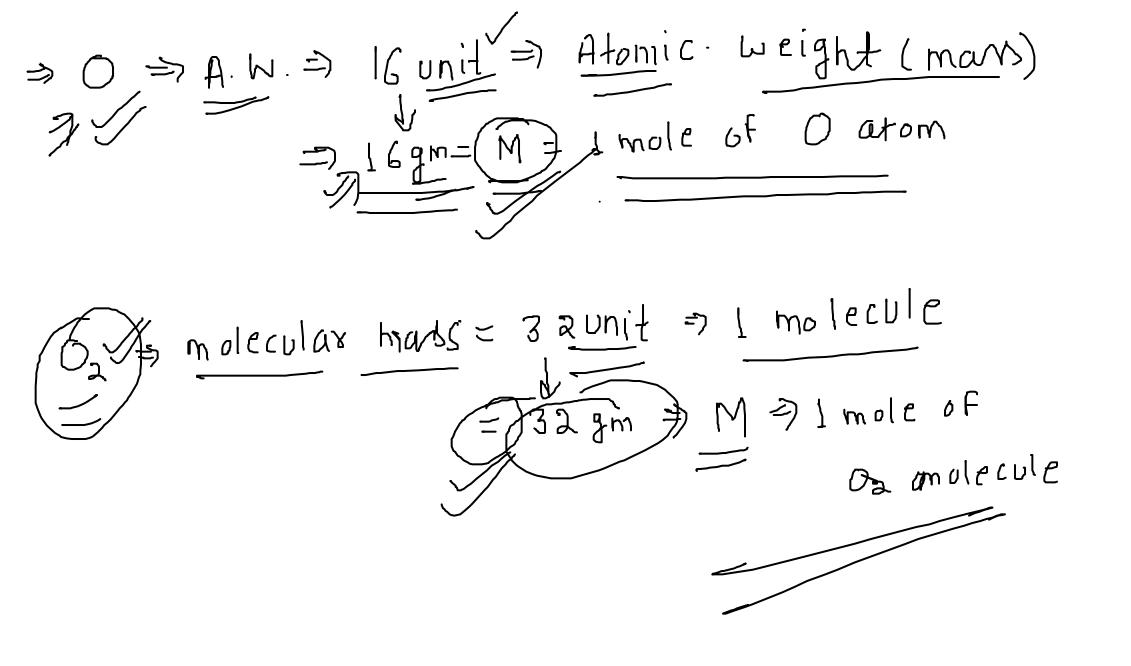
Copper [I] Selphate C. 3 . 1 Cult Solphate) Cusou > Blue vitroil (नीया श्रामा



MOLE CONCEPT

- *
- 1) Molecular Mary (310112)
- 2 Molar Man (Incut (CUHIA)
- 3 Equivalant Weight (or with FITZ)
 - (A) Male Concept (Line 314 ELKOII)
 - 5 Molarity (ATOLIN)
 - 6 Molality (Fire (FAI)
 - (i) Normality (-114(41)

At morm = 1 4 tom of N > 1 molecule of N264 (Gas) = 2N =) 98 unit -(Gas) = In mans of molecule $N = |4unit| \Rightarrow 14gm = M = 1 mole of Matom}$ = 6032 $\times 10^{23}$ No. of atom OF N Na = 20unit = 20gm = M = 1 male of Na molecules



(24+5+40) コ ユャーレナ 3コロナ 47160 -) 20+320+640 =) all unit molecular mam of N2SO4 =) 98 gm = 1 mole of H2 SO4 molecule = 6.022 x 1023 N6.0F H2 SO4 mole [we)

Atom mons on it

$$\frac{M}{M} = \frac{N}{NA} \Rightarrow \frac{M}{M} = \frac{M}{M}$$

1) How many No. of moles present in 28 gm of N atom?

$$n = \frac{m}{\underline{M}} = \underline{38}$$

$$n = \frac{3N}{11} + \sqrt{3}$$

$$=$$
 No. of malecules: $N = N_A \frac{m}{M} = 6.012 \times 10^{13} \times \frac{31}{M}$

Q2: 176 gm of C0, => (i) No. of males? (ii) No of molecules? (O) = C+20=12+32=44unit = 44 gm $(i) m = \frac{116}{44} - 4$

Equivalant Weight Molecular Weight factor V Acidy Xfactor> Total Positive charge on cation

H2SO4 > Eq. Wt? C.g.:molecular may Eq. W.t = Acid =) M2 SD4 =) mol. mass => 211+ S+40 $= 72 + 32 + 64 \Rightarrow 999m$ Eq. Wt - = 95 = 49 gm X factor: (Nt) So42

$$\frac{\text{MCI}}{\Rightarrow \text{Mol. mass}}$$

$$\Rightarrow \text{M+CI}$$

$$\Rightarrow \text{I+35.5}$$

$$\text{TM} \Rightarrow \text{36.5 gm}$$

$$\text{X factor} \Rightarrow \text{M+} \text{CI} \Rightarrow \text{IM+}$$

$$\text{Eq. W.} = \frac{36.5}{1} = 36.5 \text{ gm}$$

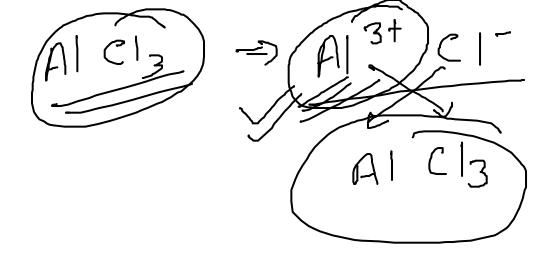
* (COOH), 2H20 [OXalic Acid] Eq. wt=? [C2/H] H20 2[12+32+1]+2[2+16] X-factor. 3/26 = 63 gm

$$\Rightarrow M. = 23 + 16 + 1$$

 $\Rightarrow 40 gm$

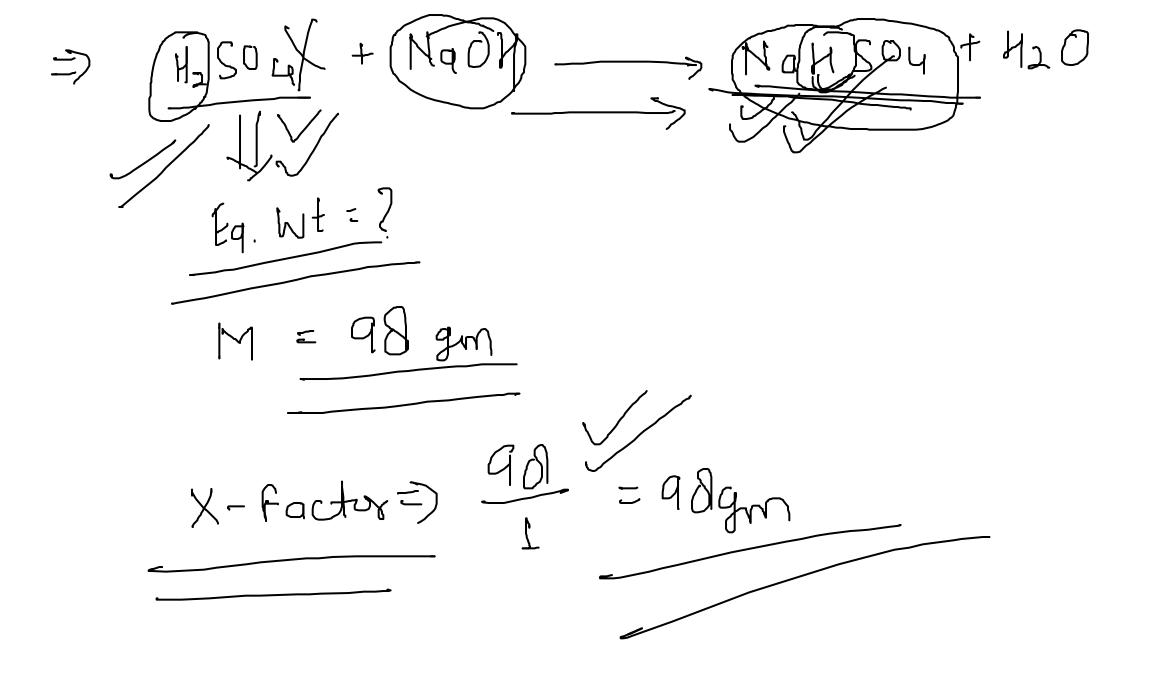
$$\frac{x - factor: - Fq.Wt = \frac{Lo}{1}}{= 40 \text{ gm}}$$

* Sout. M = 23 + 35.5= 5d.5gm



$$M \Rightarrow 21 + 3 \times 35.5$$

$$= 133.5$$



Molanty molally Nomality



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