

Course on Mole Concept for Class XI

$$\frac{\left(\frac{2}{3} \times 5 \times 16^{3}\right)}{\left(\frac{3}{300}\right)} = \frac{3}{4} \times \left[\frac{1}{127.5} - \frac{1}{300}\right] \times 10^{3}$$

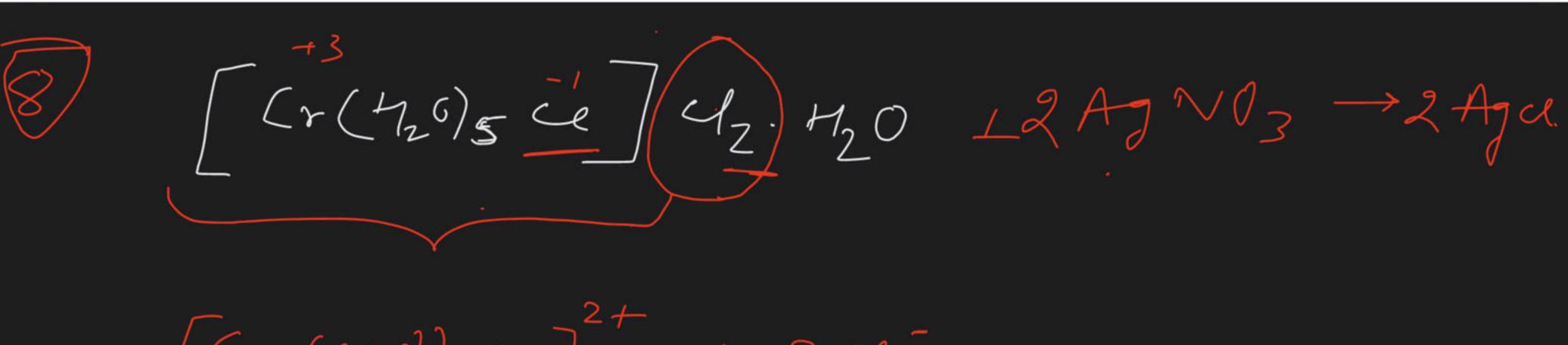
$$\frac{1}{122.5} - \frac{1}{300} \times 10^{3}$$

$$\times Ce$$

$$1 - 5 \times 16^{3} \times 32$$

$$\times Ce$$

$$1 - (20)$$



 $[(r(H_20)_5u)^2 + 2u^2$ 

 $= \frac{5.33 \times 10^{-3}}{266.5} \times 2 \times 143.5$ 

$$\frac{1}{2} \frac{1}{2} \frac{1}$$

$$\frac{3 \times 16}{2 M + 60} \times 100 = 48$$

$$\frac{M - 20}{2}$$

 $\left(12\right)$ 

$$\frac{P_4S_3}{-} + \frac{80_2}{-} \rightarrow \frac{P_4O_{10} + 3}{|m|}$$

$$\frac{1}{64} \times \frac{1}{3} \times 220$$

(gm)

ZNHZ -> 3 2/2 a - x(a) 039/2 Pa(1-4)Ax17 To tal man Marg a[1-1+1/2+3×/2] Total moles

1+0

<u>find</u> x'2 NM3 if Many in 12 Given 2NH3 -N2+ 3H2  $12 - \frac{17}{1+2} \left( \frac{5}{12} \right)$ 

Lim Mary of Reaction minting when 40% N204 decompeses into NO2.  $N_2O_4 \longrightarrow 2NO_2$  $1-\alpha$   $2 \propto$  $May = \frac{9^22}{1+2} = \frac{9^22}{\cancel{4}}$ 1.4 Mary = 460 7

Empirical & Molecular formula: Molecular formula: It shows the actual no. of atoms of each element in a molecula. -> (H206 --> ( H

Empirical formula: - It shows the no. Jatoms in their simplest whole no. ratio.

EFU

ME

ME

M20 C M 6H6

60%. let we , 2 gm 8 gm vo gm 6 gm/

Man 25 gm 45 gm B) Nome 6.25

Imol 3 mol.

find EF of given comp. if compound contains 36%, 21%, 32%, 411%.

C, N, O & M (Sy md.) (3) (3) N21 032 H1 (B) Come My 1/22.

How to determine MF from EF (1) If molecular man g componed is given.

EF (5-M802 Mod. F Mad. F C15-H2406 Motman = 300 If actual me of atoms of

3) If vapour Density is given.

Density = Mass

Volume

The service of ky

Relative density solid/hig R.D = density of (it density of ref V.D = Density of gas Density of refgus at some TEP density. of sub-Specific gravity density of 1/2 (= 1gm/me) = density of sub-

[M/RT) gas  $PV = \gamma RT$ 1M TM/RT) sef PV = WRT JA = Mgas PM = WRT Mret PM- ORT By default ref gas is 42 V, D =  $\frac{M_{200}}{2}$