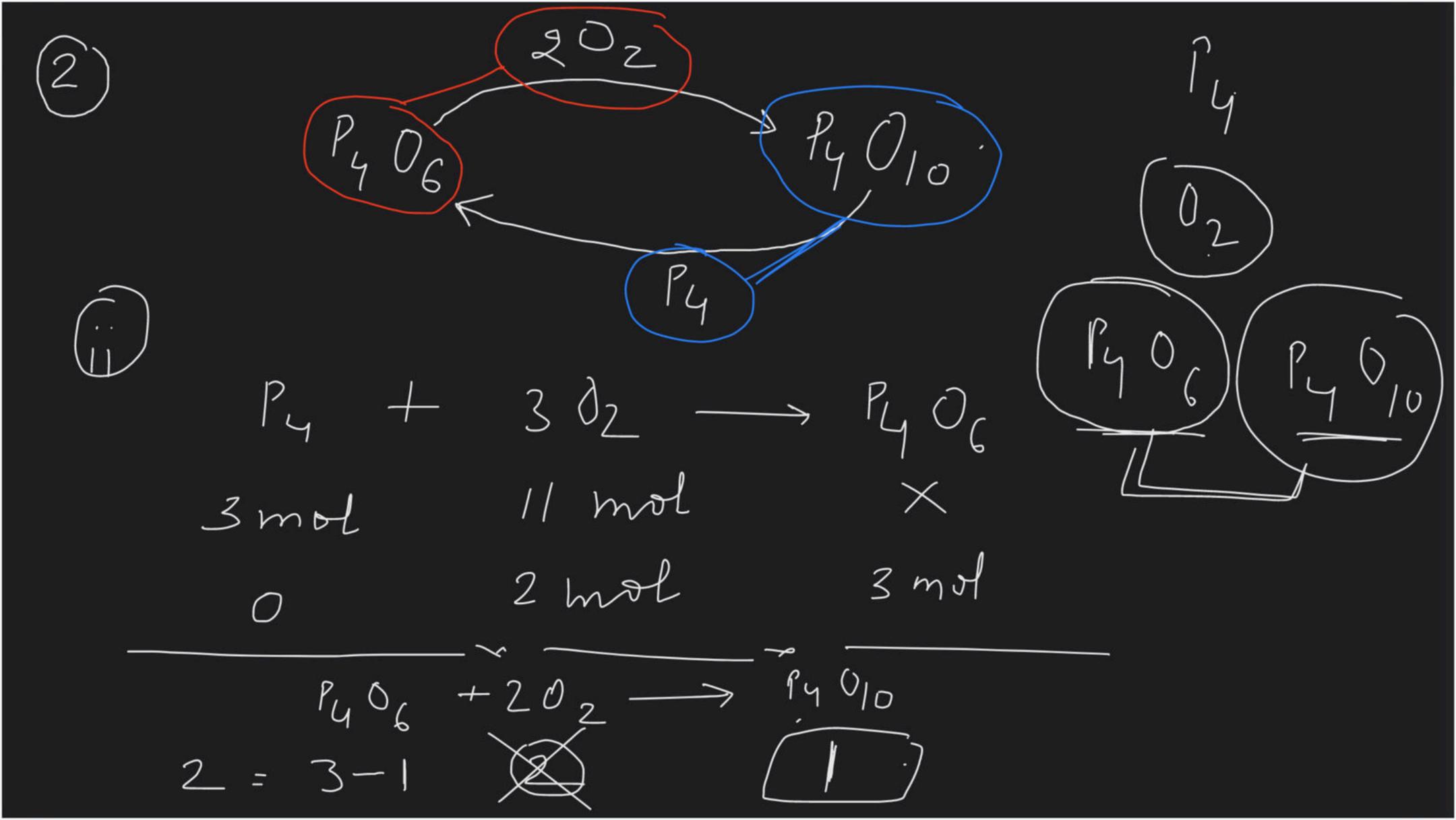


Course on Mole Concept for Class XI



$$\frac{1 \text{ mod}}{(1 + 0)_{2}} \xrightarrow{\text{Co}_{2}} \frac{\text{N}_{0_{2}} \ge 1}{\text{N}_{0_{2}} \ge 1}$$

$$\frac{1 \text{ mod}}{(1 + 1)_{2}} \frac{\text{Co}_{2}}{(1 + 1)_{2}} \frac{\text{N}_{0_{2}} \ge 1}{\text{N}_{0_{2}} \ge 1}$$

$$\frac{1 \text{ mod}}{(1 + 1)_{2}} \frac{\text{Co}_{2}}{(1 + 1)_{2}} \frac{\text{N}_{0_{2}} \ge 1}{\text{N}_{0_{2}} \ge 1}$$

 $\frac{1}{2} < \eta_0 < 1$

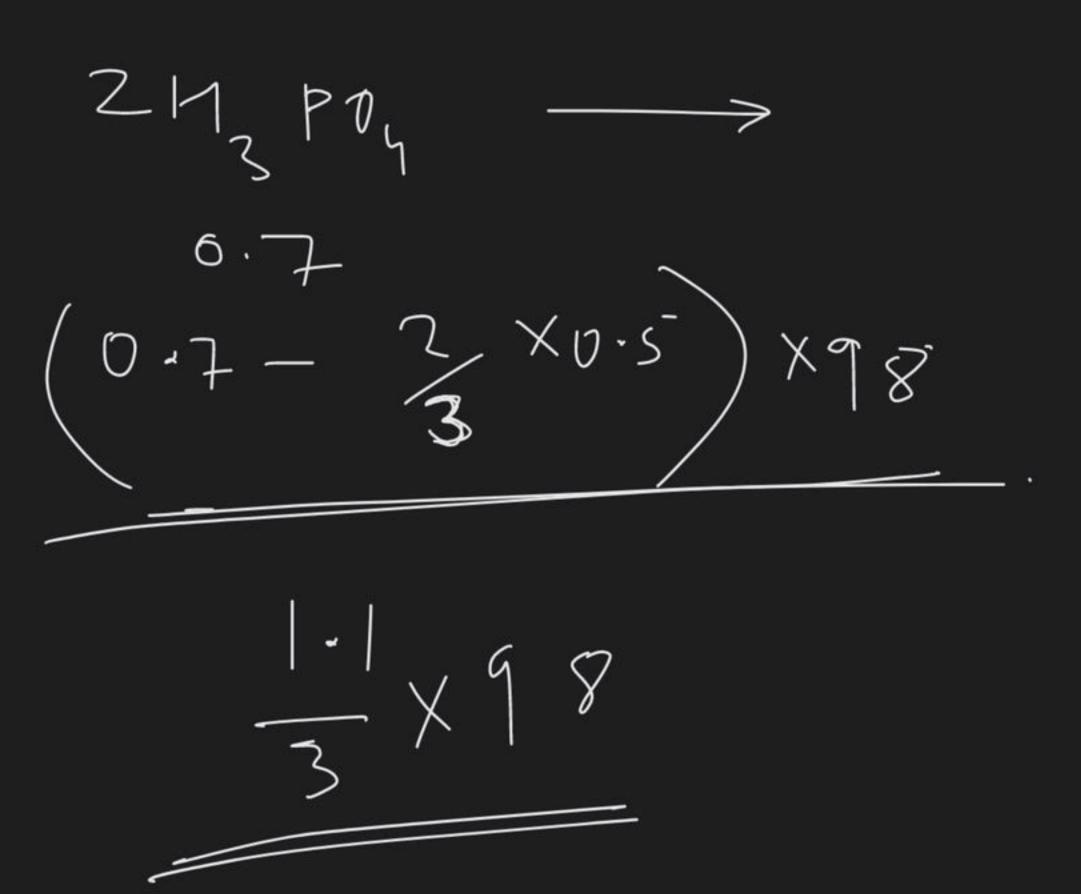
1 3 0₂ M₂ < 3 $\frac{1}{1}$ $\frac{1}{1}$ M 2 > 5 3 < M₀< 5

(4) 1/2 0 <-/. N (by man) K2 () (by mas 10% 16% 30./ U gm 30 gm 10 gm K) moles 30/4 142 10/ · 10/x2 16/ X2 /142 3/4

Be(03 + Imp)

35gm 1gm 1/2 (35) <u>40 gm</u> >Be C1 + 120 + 02 Beroz + 24U (39/2) ×

3 Ca W3 +



atomic/Molecular Man 5-> C 35 25% by mode 75 1. Zshoo 75 mol 3 mos 1 mol n, M, + n2 M2 Avg atomic $n, + m_2$ 3 × 32 T 1× 37=35.5

Marg = Total man = N,M, + N2M2 Total m 2 moles n, +n2

May - (17/6+4×4) 5 He 50% 50% 16 gm 16 gm 1 hol 1 mol 4 mol

Lyman

16+16 Mary 16/4 % by mole > / by man

N₂ Mary = (A) 28.8 (D) 27.6 (c) 30.6

20 / Ly moles $= \frac{4 \times 28 + 1 \times 32}{5} = 28.8$ let the total He CHy woles=100 re (100-2K) moles (A) / by mod the (B) 7. by man He - 4x(2) + (100-x)x/6 12n = (~) 20%) i 4gm 16gm

let he total man 100 gm = 2 gm mass of He =(|w-x)gm100 x/+|w-x|

N₂ 0₂ 32 # Mary = 29 Mang = 10 (1. by mod) = 3 x / w $\frac{6}{12} \times 10^{3} = \frac{6}{12} \times 10^{3} = \frac{6}$ 1. by med 02 = 1/4/100 $(7.59 \text{ mod}) = \frac{6}{12} \times 100 = \frac{50.7}{12}$

7. by man = 1/by moles X M. M. of M. My = m $M = \chi M_1 + (100 - \chi) M_2$ 100m - 100m2 - 2 (M,-M2) 100 (m- M2) m, - m2

Marg

1. by mod of Nz = 75%.

7. by mod 2 02 = 25%] 1. by mass = 25 x 32/ 29

7. by man = 7-5 × 28/29



3 13 1. by number 40% 60% 2 5 alls 3 balls mole 20 gm 50 gm 60 gm 56./.

du sociation: → 2B + Amt reacted for mole of renctant.

= % Q-X2x a. - ax 200 ad ad 2 a Z

$$2NH_{3}$$
 N_{2} $+ 3H_{2}$ $3n/_{2}$ $3n/_{2}$

$$a(1-4) \qquad \frac{a}{2} \qquad \frac{3aa}{2}$$

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47,48 S-27-13 36,37,43

2 NM2 - 3H2 1.5 0.5 $\leq -\left(\right)$ d = 1/5 = 0.2