12-07-24 Friday

laws of chemical combination. 1 Low of conservation of matter

Readants = 309

Product = 309

Total mass of R = Total mass of P.

1 Low of constant proportion.

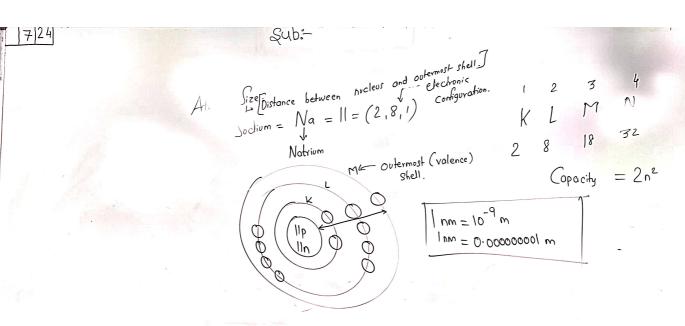
=6+6

- 12.

AMN =0 =16

Priday

Laws of chemical combination.  $2H_2 + 0_2 \longrightarrow 2H_20.$   $4 + 32 \longrightarrow 36$   $\frac{4}{4} \longrightarrow \frac{32}{4} \longrightarrow \frac{36}{4}$   $1 + 8 \longrightarrow 9$   $H_20 = 2 + 16$   $H_20 = 18$   $2H_20 = 36$ Ratio = 1:8



Şub:-Moleculor Atomic mass x No. of No. of atoms in the molecule Mass of Atomic mass (u) Constituent Constituents Molecule elements atoms Ca 40 40 × 1 40 (a(OH)2 2 0 16 16 × 2 32 Calcium 2 1 × 2 H 2 hydroxide = 40+32+2 = 74 U.

Moleculor	Mass.		1		Admic mass	Mass of	1
	Tolecule	Constituent elements	Atomic mass (u)	No. of atoms in the molecule	Atomic mass × No. of atoms	Mass of Constituents	
-	2504	H	1	2	1×2	2	
	1	5	32		32×1	32	
	Sulfuric acid	0	16	4	16 × 4	64	
1 1 -						= 2+32+64 = 980.	
						= 98 U.	
							-

Avogados's Number  $(N_A)$ .  $| \text{mole} = 6.022 \times 10^{23} \text{ molecules} / \text{particles}$ .  $| \text{mole} = 6.022 \times 10^{23} \text{ molecules}$ .  $| \text{mole} = 6.022 \times 10^{23} \text{ molecules}$ . | mole = 12 + 32 = 140.

Eq. | mole of  $H_2O = 18g$  of  $H_2O$ .

