

If 0.4 g of NaOH is present in <u>40 mL</u> of solution. What is the molarity and normality of solution. [Molecular mass of NaOH = 40]

M = mole of Solute ^(a) 0.25 N **(b)** 0.025 N Volume of Solution (d) 0.50 N (c) 2.5 N  $M = \omega(g_{am})^{-1}$ II method  $M = \omega(gm) \times 1000$ Normality = molarity ×n-f  $m \cdot \omega + \times \vee (m L)$ M = 0.4 × 1000 = 0.25 M V-F for Ngoh  $\rightarrow m - f_{actor} = 1$ 40×40 mass of solute x 1000 N = M × m - Factor N = E-qt mass of Solule ×V (mL) = 0.25 × 1 0-4 ×1000 = 0.25N 0.25 40×40 LAKSHYA KO HAR HAAL ME PAANA HAI

QUESTION: 2  

$$33m \text{ of } H_2 \text{ Soup Present in longen of Solution}$$
  
Find out the molarity of  $93\% (w/W) H_2 SO_4$  (density = 1.84 g/ml).  
(a) 174.6 M  
(c) 1.746 M  
(c) 1.746 M  
(d) All of these  
 $M = \frac{\text{mole 9 of Solute}}{\text{Nolume of Solution}} = \frac{\text{cmass in } \times \text{Demsity} \times 1000}{\text{mwt} \times \text{ mass of Solution}}$   
 $M = \frac{33 \times 1.84 \times 1000}{98 \times 100} = \frac{33 \times 1.84 \times 1000}{98 \times 1000}$   
 $= \frac{33 \times 1.84 \times 1000}{98 \times 1000}$ 





Find the percentage by mass and mass fraction of aspirin in the solution prepared by dissolving 3.65 g of aspirin in 25.08 g of water. L> Solvent 12.7% Solute **(a) (b)** 1.27% **(C)** 0.127% (d) 0.0127% mass of Solution = mass of Solute + mass of Solvent = 3.65 + 25.08 = 28.738mass fraction of solute = mass of solute Total mass = 3.65 = 0.127 28.73 mars-/. = 0.127 × 100 - 12.7./. LAKSHYA KO HAR HAAL ME PAANA HAI



QUESTION: 6  

$$go | Vent = 100 - 60$$

$$m 098 = 40 \text{ g cm}$$

$$for g m eff so H present
(a) 45.8,54.2
(c) 50,50
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(c) 50,50
$$for g m eff so H present
(b) 54.2,45.8
(c) 50,50
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The molarity of a solution of sodium chloride (mol wt. = 58.5) in water containing 5.85 g of sodium chloride in 500 mL of solution is:-

> solute

(a) 
$$0.25$$
  $\omega(gm) = 5.85 gm$  (b) 2.0  
(c) 1.0  $m \cdot \omega t = 58.5 gm$  (d) 0.2

$$M = \omega(g_{an}) \times (ovo$$

$$M \cdot w + \times \vee (m_1)$$

$$M = 5 \cdot 85 \times 1000$$

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$$M = \frac{5.85}{58.5 \times 500} = 0.2 Molar$$



Solvent



Equal weight of <u>NaCl and KCl are dissolved</u> separately in equal volumes of solutions then molarity of the two solutions will be

(a) Equal × 
$$M = \frac{\text{cm ole}}{\text{solute}} \text{ Solute}$$
  
(b) That of NaCl will be less than that of KCl × Volume of Solution (L)  
(c) That of NaCl will be more than that of KCl Solution  $\left[ \begin{array}{c} n = \frac{\omega}{8m} \\ m \cdot \omega + a \end{array} \right] \times \left[ \begin{array}{c} n \cdot \omega + a \end{array} \right] \times \left[ \begin{array}{c} n \cdot \omega + a \end{array} \right] \times \left[ \begin{array}{c} n \cdot \omega + a \end{array} \right] \times \left[ \begin{array}{c} n \cdot \omega + a \end{array} \right] \times \left[ \begin{array}{c} n \cdot \omega + a \end{array} \right] \times \left[ \begin{array}{c} n \cdot \omega + a \end{array} \right] \times \left[ \begin{array}{c} n \cdot \omega + a \end{array} \right] \times \left[ \begin{array}{c} n \cdot \omega + a \end{array} \right] \times \left[ \begin{array}{c} n \cdot \omega + a \end{array} \right] \times \left[ \begin{array}{c} n \cdot \omega + a \end{array} \right] \times \left[ \begin{array}{c} n \cdot \omega + a \end{array} \right] \times \left[ \begin{array}{c} n \cdot \omega + a \end{array} \right] \times \left[ 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In a solution of 7.8 g benzene ( $C_6H_6$ ) and 46.0g toluene ( $C_6H_5CH_3$ ) the mole fraction of benzene is:-

(a) 
$$\frac{1}{6}$$
  $\omega_{(6H_6} = 7 \cdot 8 g \text{ m}$  (b)  $\frac{1}{5}$   
(c)  $\frac{1}{2}$   $(m \cdot \omega) \xi^{H_6} = 7 \cdot 8 g \text{ m}$  (d)  $\frac{1}{3}$   
 $m_{C_6H_6} = \frac{1 \cdot 8}{78} = 0 \cdot 1$   
 $(d_{C_6H_5(H_3)} = 46 \cdot 0 g \text{ m})$   
 $(m \cdot \omega)_{C_6H_5(H_3)} = 9 \cdot 2 g \text{ m}$   
 $m_{C_6H_5(H_3)} = \frac{46}{92} = 0 \cdot 5$   
 $m_{C_6H_5(H_3)} = \frac{46}{92} = 0 \cdot 5$   
 $m_{C_6H_6} = \frac{m_{C_6H_6}}{m_{T_6H_6}} = 0 \cdot 1 = 1$   
 $\sum_{Lakshya} KO Har Haal ME PAANA HAI$ 







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250

**400** 

**(a)** 

**(c)** 



A 500 g tooth paste sample has 0.02 g fluoride concentration. What is the concentration of fluorine in terms of ppm level:-





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 $H_2O_2$  solution used for hair bleaching is sold as a solution of approximately 5.0 g  $H_2O_2$  per 100 mL of the solution. The molecular mass of  $H_2O_2$  is 34. The molarity of this solution is approximately:-

- (a) 0.15 M (b) 1.5 M
- (c) 3.0 M (d) 3.4 M
  - mass of H2O2 = 58m molar mars = Bygm mole =  $\omega(8m) = \frac{5}{34} = 0.147$  $M \cdot \omega + \frac{34}{34}$  $Molarify = \frac{0.147}{100} \times (000 = 1.47)$



