

Yakeen NEET 2.0 2026

Physical Chemistry By Amit Mahajan Sir

Some Basic Concept of Chemistry

DPP: 8

- Q1** If sea water is assumed to contain 40 g of salt per 200 g of sea water then percentage by mass of salt present is;
 (A) 15% (B) 40%
 (C) 20% (D) 10%
- Q2** Calculate the mass of cane sugar required to prepare 250 g of 25% cane sugar solution with water.
 (A) 6.25 g
 (B) 187.5 g
 (C) 18.75 g
 (D) 62.5 g
- Q3** What should be the mass by volume % of a solution which is 20% mass by mass? (density of the solution is 1.02 g/ml)
 (A) 13.2% (B) 10.2%
 (C) 12.4% (D) 20.4%
- Q4** What is the concentration in mass/volume if 67 g of solute is dissolved to make 1.2 litre of solution?
 (A) 6% (B) 8%
 (C) 24% (D) 12%
- Q5** What amount of solute is dissolved in 0.5 L of solution to make it 20% (w/v)?
 (A) 120 g
 (B) 150 g
 (C) 100 g
 (D) 200 g
- Q6** A room has oxygen and nitrogen in mass ratio of 8 : 7. Find mole fraction of oxygen gas.
 (A) 0.2 (B) 0.3
 (C) 0.5 (D) 0.8
- Q7** A liquid solution consists of three liquids A, B and C with mole fractions of $A = 0.3$ and mole fraction of $B = 0.2$. Find mole fraction of C.
 (A) 0.5 (B) 0.2
 (C) 0.3 (D) 0.7
- Q8** A solution contains 50 g of CaCO_3 dissolved in 3 liters of water. Find the molarity of the solution formed.
 (A) $\frac{1}{2}$ (B) $\frac{1}{3}$
 (C) $\frac{1}{6}$ (D) $\frac{1}{4}$
- Q9** Find out the molarity of 93% (w/w) H_2SO_4 (density = 1.84 g/ml).
 (A) 174.6M
 (B) 17.46M
 (C) 1.746M
 (D) All of these
- Q10** How much the amount of benzoic acid ($\text{C}_6\text{H}_5\text{COOH}$) required for preparing 250 mL of 0.15M solution in methanol?
 (A) 45.75g (B) 4.575g
 (C) 0.2M (D) 9.15g
- Q11** Molarity of 4% (w/v) solution of NaOH is:
 (A) 0.1 (B) 0.5
 (C) 0.001 (D) 1.0
- Q12** What is the molality of a solution containing 2 moles of a solute dissolved in 500 g of a solvent?
 (A) 3 (B) 2
 (C) 1 (D) 4



Answer Key

Q1 (C)
Q2 (D)
Q3 (D)
Q4 (A)
Q5 (C)
Q6 (C)

Q7 (A)
Q8 (C)
Q9 (B)
Q10 (B)
Q11 (D)
Q12 (D)



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