

Chemistry Fsc Part 1 Online Test

| Sr | Questions | Answers Choice |
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| 1 | Which of the following mixtures of liquids show negative deviation | A. Methyl alcohol water B. Hydrochloric acid water C. Carbon di sulphide chloroform D. Chlorobenzene bromobenzene |
| 2 | Unit of mole fraction is | A. mol dm ⁻³ B. mol kg ⁻¹ C. g dm ⁻³ D. No unit |
| 3 | What amount of NaOH is required to prepare 500 g of 0.5 molal solution. | A. 10 g B. 20 g C. 30 g D. 40 g |
| 4 | Which concentration unit is independent of temperature. | A. Molarity B. Molality C. ppm D. both a and b |
| 5 | In a solution 7.8 g of benzene and 46 g of toluene is present The mole fraction of benzene is. | A. 1/2 B. 1/3 C. 1/5 D. 1/6 |
| 6 | The molarity of 2% w/v NaOH solution is | A. 2 B. 0.25 C. 0.05 D. 0.5 |
| 7 | The sum of mole percent of all the components of solution is always equal to. | A. Unity B. 100 C. Less than one D. Less than 100 |
| 8 | 10 g of NaOH have been dissolved per kg of solvent The molality of solution. | A. 0.25 m B. 0.5 m C. 1.0 m D. 2.0 m |
| 9 | 10 g of NaOH has been dissolved per dm ³ of solution. The molarity of solution is. | A. 0.5 M B. 0.25 M C. 1 M D. 2 M |
| 10 | A solution of sucrose is 34.2% The volume of solution containing one mole of solute. | A. 500 cm ³ B. 1000 cm ³ C. 342 cm ³ D. 3420 cm ³ |
| 11 | Colligative properties are the properties of. | A. Dilute solution which behave as nearly ideal solutions B. Concentrated solutions which behave as nearly non ideal solutions C. Both a and b D. Neither a nor b |
| 12 | The molal boiling point constant is the the ratio of the elevation in boiling point to. | A. Molarity B. Molality C. Mole fraction of solvent D. Mole fraction of solute |
| 13 | Two solutions of NaCl and KCl are prepared separately by dissolving same amount of the solute in water. Which of the following statements is true for these solution. | A. KCl solution will have higher boiling pint than NaCl solution B. Both the solutions have different boiling point C. KCl and NaCl solutions possess same vapour pressure D. KCl solution possesses lower freezing point than NaCl solution |
| 14 | Which of the following solution s has the highest boiling point. | A. 5.85% solution of sodium chloride B. 18.0 % solution of glucose C. 6.0% solution of urea D. 10.0% solution of sucrose |

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| | | D. All have the same boiling point |
| 15 | In azeotropic mixture showing positive deviation from Raoult's law, the volume of the mixture is. | A. slightly more than the total volume of the components B. Slightly less than the total volume of the component C. Equal to the total volume of the components D. None of these |
| 16 | An azeotropic mixture of two liquids boils at lower temperature than either of them when. | A. It is saturated B. It shows positive deviation from Raoult's law C. It shows negative deviation from Raoult's law D. It is metastable |
| 17 | An aqueous solution of ethanol in water has vapour pressure. | A. Equal to that of water B. Equal to that of ethanol C. More than that of water D. Less than that of water |