

Chemistry VIVA Questions & Answers

1) Explain the term Aliquot and Diluent?

- Aliquot : It is a measured sub-volume of original sample
- Diluent: Material with which sample is diluted

2) Explain what is molality?

Molality is the number of solute that is present in 1 kg of a solvent.

3) Explain what is titration?

Titration is a process to determine the molarity of a base or an acid. In this process a reaction is carried out between the known volumes of a solution with a known concentration, against the known volume of a solution with an unknown concentration.

4) Explain what is buffer?

A buffer is an aqueous solution which has highly stable pH. It is a blend of a weak acid and its conjugate base or vice versa. On adding small amount of base or acid to buffer, its pH hardly changes.

5) Explain how buffer works?

In buffer when hydrogen ion is added, it will be neutralized by the base in buffer. Hydroxide ion will be neutralized by the acid. On the overall pH of the buffer solution, these neutralization reactions will not show much effect.

Viva Chemistry Question Of Chapter Abbottabad

**Douglas Buchanan, James Melrose, A. R.
Ross**

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Practical Chemistry S. K. Agarwal, S. K. Wadhwa, 1982

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2 To bend the glass rod at an angle
3 To draw a glass jet from a glass tube
4 To bore a cork and fit a glass tube into it
Viva Voce
2 Characterisation and Purification of Chemical Substances
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Viva Voce
2 To determine the boiling point of a given liquid when available in small quantity simple laboratory method
Viva Voce
3 To prepare crystals of pure potash alum $K_2SO_4 \cdot Al_2(SO_4)_3 \cdot 24H_2O$ from the given impure sample
4 To prepare the pure crystals of copper sulphate from the given crude sample
5 To prepare pure crystals of benzoic acid from a given impure sample
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2 To determine and compare the pH values of solutions of strong acid HCl and weak acid CH_3COOH of same concentration
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2 To study the shift in equilibrium between Co^{2+} and Cl^- ions by changing the concentrations of either of the ions
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4 To determine the strength of a given solution of hydrochloric acid by titrating it against a standard N 10 or M 20 sodium carbonate solution
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1 To compare the foaming capacity of different washing soaps
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carbonate on foaming capacity of washing soap Viva Voce 5 Tea Analysis 1 To study the acidity of different samples of tea leaves tea by using pH paper Viva Voce 6 Analysis of Fruits and Vegetable Juices 1 To analysis the fruit and vegetable juices for the constituent present in them Viva Voce 7 Rate of Evaporation 1 To study the rate of evaporation of different liquids IViva Voce 8 Effect of Acids and Bases on Tensile Strength of Fibres 1 To compare the tensile strength of natural fibres and synthetic fibres 2 To study the effect of acids and bases on tensile strength of different fibres Viva Voce

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web determine the final temperature and state of the ammonia once the system reaches equilibrium assuming that no heat is lost to the surroundings use the information below normal boiling point of NH_3 33 3 c Δh_{vap} 23 4 kJ/mol specific heat NH_3 1 4 74 J/g K specific heat NH_3 2 06 J/g K

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web apr 3 2023 the experiment described above can be summarized in a graph called a heating curve figure below figure 11 16 1 11 16 1 in the heating curve of water the temperature is shown as heat is continually added changes of state occur during plateaus because the temperature is constant

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web once all of the material has solidified at the time indicated by point c the cooling will continue at a rate determined by the heat capacities of the two solids a and b the composition and of course the geometry of the experimental set up by measuring cooling curves for samples of varying composition one can map the entire phase

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web for water this temperature is 100 c because the boiling point for water is 100 c different substances have different melting points and boiling points but the shapes of their heating curves are very similar for example this is the heating curve for iron a metal that melts at 1538 c and boils at 2861 c cooling curves

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