## **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 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**

**Er. Meera Goyal** 

### **Viva Chemistry Question Of Chapter Abbottabad:**

Practical Chemistry S. K. Agarwal, S. K. Wadhwa, 1982 Viva Catchup: Chemistry For Class X Nivedita **Viva Catchup: Chemistry** Mitch Frv, 2007-01-01 Viva Studymates: Chemistry Alevamma Bose,2009-01-01 Practical/Laboratory Manual Chemistry Class - XI Er. Meera Goyal, 2021-05-29 1 Basic Laboratory Ninan, 2010-01-01 Techniques 1 To cut a glass tube or glass rod 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 1 To determine the melting point of the given unknown organic compound and its identification simple laboratory technique 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 K2SO4 Al2 SO4 3 24H2O 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 Viva Voce 3 Measurement of pH Values 1 To determine the pH value of vegetable juices fruit juices tap water and washing soda by using universal pH paper 2 To determine and compare the pH values of solutions of strong acid HCI and weak acid CH3COOH of same concentration 3 To study the pH change in the titration of strong base Vs strong acid by using universal indicator paper 4 To study the pH change by common ion CH3COO ion in case of weak acid CH3COOH 5 To determine the change in pH value of weak base NH4OH in presence of a common ion NH4 Viva Voce 4 Chemical Equilibrium 1 To study the shift in equilibrium between ferric ions and thiocyanate ions by changing the concentrations of either of the ions 2 To study the shift in equilibrium between Co H2O 6 2 and Cl ions by changing the concentrations of either of the ions Viva Voce 5 Quantitative Analysis 1 To prepare M 10 oxalic acid solution by direct weighing method 2 To prepare M 10 solution of sodium carbonate by direct weighing method 3 To determine the strength of given solution of sodium hydroxide by titrating it against N 10 or M 20 solution of oxalic acid 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 Viva Voce 6 Qualitative Analysis Analysis of Anions Analysis of Cations Viva Voce 7 Detection of Elements in Organic Compounds 1 To detect the presence of nitrogen sulphur and halogens in a given organic compound by Lassaigne s test 2 To detect the presence of nitrogen sulphur and halogens in the given organic compound sample number by Lassaigne s test Viva Voce INVESTIGATORY PROJECTS 1 Checking of Bacterial Contamination in Water 1 To check the bacterial contamination in drinking water by testing sulphide ions Viva Voce 2 Methods of Water Purification 1 To purify water from suspended impurities by using sedimentation 2 To purify water by boiling 3 o purify water by distillation method 4 To purify water by reverse osmosis technique 5 To purify water by GAC method 6 To purify water by bleach treatment 7 To purify water by oxidising agent 8 To purify water by ozone treatment method Viva Voce 3 Water Analysis 1 To test the hardness of different water samples Viva Voce 4 Foaming Capacity of Various Soaps 1 To compare the foaming capacity of different washing soaps 2 To study the effect of addition of sodium

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 **Of Chemistry Practicals** [walant Travadi,2018 **Environmental Chemistry MCQ (Multiple Choice Questions)** Arshad Igbal, The Environmental Chemistry Multiple Choice Questions MCQ Quiz with Answers PDF Environmental Chemistry MCQ PDF Download Quiz Questions Practice Tests with Answer Key Class 10 Chemistry Questions Bank MCQs Notes includes revision guide for problem solving with solved MCQs Environmental Chemistry MCQ with Answers PDF book covers basic concepts analytical and practical assessment tests Environmental Chemistry MCQ PDF book helps to practice test questions from exam prep notes The Environmental Chemistry MCQs with Answers PDF eBook includes revision guide with verbal quantitative and analytical past papers solved MCQs Environmental Chemistry Multiple Choice Questions and Answers MCQs PDF Free download sample a book covers solved guiz questions and answers on 10th grade chemistry topics What is environmental chemistry composition of atmosphere layers of atmosphere stratosphere troposphere ionosphere air pollution environmental issues environmental pollution global warming meteorology and ozone depletion tests for high school students and beginners Environmental Chemistry Quiz Questions and Answers PDF free download eBook s sample covers exam s viva interview questions and competitive exam preparation with answer key The book Environmental Chemistry MCQs PDF includes high school question papers to review practice tests for exams Environmental Chemistry Multiple Choice Questions MCQ with Answers PDF digital edition eBook a study guide with textbook chapters tests for NEET Jobs Entry Level competitive exam Environmental Chemistry Mock Tests eBook covers problem solving exam tests from high school chemistry textbooks

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