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B.Sc II Yr (IV Semester) Chemistry Practical Examination

Paper IV- Quantitative analysis – II Question Bank

Question Paper Pattern:

- A. Question for Principle Writing
- **B.** Main Experiment Question

A. Questions for the Principle Writing:

Any one among the following may be given:

- 1. Write the principle of conductometric titration of a strong acid vs strong base.
- 2. Give the principle of conductometric titration of a weak acid vs strong base.
- 3. Write the principle of potentiometric titration of a strong acid vs strong base.
- 4. Give the principle of potentiometric titration of a weak acid vs strong base.
- 5. Write the principle for the estimation of Ni⁺² by back titration method.
- 6. Give the principle for the estimation of Ba(II) as BaSO₄.

B. Questions for the Main Experiment

- 1. Determine the concentration of given HCl solution by a conductometric titration with the provided standard 0.5 M NaOH solution.
- 2. Determine the concentration of given NaOH solution by a conductometric titration with the provided standard 0.1 M HCl solution.
- 3. Determine the concentration of given CH₃COOH solution by a conductometric titration with the provided standard 0.5 M NaOH solution.
- 4. Determine the concentration of given NaOH solution by a conductometric titration with the provided standard 0.1 M CH₃COOH solution.
- 5. Determine the concentration of given HCl solution by Potentiometrically using standard 0.1 M NaOH solution provided.
- 6. Determine the concentration of given NaOH solution by Potentiometrically using standard 0.1 M HCl solution provided.
- 7. Determine the concentration of given CH₃COOH solution by Potentiometrically using standard 0.1 M NaOH solution provided.
- 8. Determine the concentration of given NaOH solution by Potentiometrically using standard 0.1 M CH₃COOH solution provided.
- 9. Estimate the amount of Ni⁺² present in the given solution by **back titration method**. You are provided with standard 0.01M MgSO₄ solution and approximately 0.01M EDTA solution.
- 10. Estimate the amount of **Barium** (II) present in the given solution as **Barium Sulphate**.

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Scheme of Evaluation for questions 1-8

A. Principle Writing:

05 Marks

B. Experiment:

15 Marks (Performing experiment and Tabulation - 06 marks,

Graph - 05 marks, Calculation - 03 marks and Result – 01 mark)

C. Record & Viva:

05 Marks

TOTAL:

25 Marks

Scheme of Evaluation for questions 9,10

A. Principle Writing:

05 Marks

B. Experiment:

15 Marks (Weighing & Standardization - 04 marks, Estimation –

05 marks, Calculation - 05 marks and Result - 01 mark)

C. Record & Viva:

05 Marks

TOTAL:

25 Marks