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Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary. Answer all questions

## LONG ESSAY (Answer any TWO)

2 X 20 = 40 Marks

- a) Explain the various steps in quantitative analysis by granimetric method
  - Explain volhard's and modified volhard's method for the estimation of Halide by giving suitable examples from I.P.1996
- a) write the preparation, standardization and application of Karl-Fischer reagent
  - b) write a note on dropping mercury electrode
- 3. a) Discuss quality control of capsules
  - Explain the quality control of baby care products

## SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

- 4. Explain the principle, construction and working of glass-membrane electrode
- What are ligands? Explain the types of ligands with example and write the use of masking and demasking agents in the analysis of mixure of metal ions by complexometry
- Write a note on safety for cosmetic products
- Discuss principle and applications of high frequency titrations
- 8. Discuss principles and applications of non-aqueous titration
- 9. Explain the assay of any two compounds in IP 1996 done by redox titrations

SHORT NOTES 2 X 5 = 10 Marks

- 10. What are primary standards, give examples, what are the properties of an ideal primary standard?
- 11. Write the principle and reaction involved in the assay of Bisacodyl suppositories IP 1996

