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TKN/KS/16/6978

B. Pharm. Semester-II (C.B.S.) Examination PHARMACEUTICAL ANALYSIS–I Paper–IV: 2T4

Time—Three Hours]

[Maximum Marks—80

N.B.:– (1) Question No. 1 compulsory.

- (2) Solve any **FOUR** questions from the remaining.
- (3) Draw neat labelled diagram wherever necessary.
- (4) Use of electronic calculator is permitted.
- 1. Answer any **FIVE** of the following:
 - (a) Explain why chloride estimation by Mohr's method need to be performed in neutral media.
 - (b) Comment on the use of acetic anhydride in preparation of 0.1 M acetous perchloric acid.
 - (c) Explain why aqueous solution of sodium chloride is neutral whereas solution of sodium acetate is basic.

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- (d) Give advantages of ceric ammonium sulphate over other oxidising agent in redox titrations.
- (e) Explain how aging and digestion helps in obtaining better quality precipitate in gravimetry.
- (f) Explain the concept of molarity and normality with their relative merits and demerits. 4×5
- What are neutralization indicators? Give theory of their action and explain theoretical basis for selection of suitable indicators for acid-base titrations.
- (a) Give advantages and limitations of non-aqueous titrations and explain alkalimetry in non-aqueous media.
 - (b) Define accuracy, precision and error. Give classificationof errors with suitable examples.
- 4. Classify the redox indicators with suitable examples and explain theory of internal redox indicators. Give the method for preparation, standardization and storage of 0.02 M solution of potassium permanganate.

- What are complexes and chelates? Describe EDTA as a titrant in complexometry. Elaborate the ways and means of improving selectivity of complexometric titrations and explain how will you determine aluminium and magnesium present in admixture.
- 6. What is gravimetry? Give its merits and demerits. Explain co-precipitation and post-precipitation of impurities and their minimisation in gravimetric analysis. Add a note on gravimetric assay of piperazine salts.
- 7. Explain the theory of adsorption indicators and give their examples with conditions of their use. Add a note on preparation and stardardisation of 01 M silver nitrate solution.

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