

KNT/KW/16/6549

B.Pharm (Second Semester) (C.B.S.) Examination**PHARMACEUTICAL ANALYSIS—I****Paper—4 (2 T 4)**

Time : Three Hours]

[Full Marks : 80

N.B. :— (1) Question No. **1** is compulsory.(2) Solve any **FOUR** questions from the remaining.

(3) Draw neat labeled diagram wherever necessary.

(4) Use of electronic calculator is permitted.

(5) Assume suitable data wherever necessary.

1. Solve any **FIVE** of the following :

(a) What is difference between idometric and idemetric titrations ?

(b) Write about various types of non-aqueous solvents.

(c) Explain ligand, chelates and complexes.

(d) Why freshly prepared solutions of potassium permanganate is heated prior to its use in titrations ?

(e) Write a note on preparation and standardization of 0.1 M Perchloric acid.

(f) Write a note on theory of Indicators.

5×4=20

2. (a) Describe Neutralization theory and neutralization curves of different acid-base titrations. 8

(b) Define errors and classify them. How errors can be minimised ? 7

3. (a) What are adsorption indicators ? 5

(b) Describe Mohr's Method for halide determination. 10

4. (a) Describe Redox titration curves. How end points are detected in redox titration ? 8

(b) Explain standard reduction potential and formal potential. Give their significance in redox reaction. 7

5. Explain practical aspect in Gravimetric Analysis. Explain steps involved in it. Discuss in detail co-precipitation and post-precipitation. 15

6. Discuss principle and procedure involved in the assay of any **THREE** :

- (a) Asprin
- (b) Hydrogen peroxide
- (c) Calcium gluconate
- (d) Iodine solution
- (e) Phenol.

3×5=15

7. Write short notes on any **THREE** of the following :

- (a) Primary and Secondary standards
- (b) Methods of expressing concentration
- (c) Masking and Demasking
- (d) Thermogravimetry
- (e) Henderson-Hasselbach equation.

3×5=15

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