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[Full Marks : 80 Solve any FOUR questions from the remaining. (3) Draw neat labeled diagram wherever necessary. (4) Use of electronic calculator is permitted. Assume suitable data wherever necessary. Solve any FIVE of the following : 1. (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 (a) Describe Neutralization theory and neutralization curves of different acid-base titrations. 2. (b) Define errors and classify them. How errors can be minimised ? 3. (a) What are adsorption indicators ? (b) Describe Mohr's Method for halide determination. 10 (a) Describe Redox titration curves. How end points are detected in redox titration ? 4 (b) Explain standard reduction potential and formal potential. Give their significance in redox reaction. Explain practical aspect in Gravimetric Analysis. Explain steps involved in it. Discuss in detail 5. co-precipitation and post-precipitation. 15

B.Pharm (Second Semester) (C.B.S.) Examination

PHARMACEUTICAL ANALYSIS—I

Paper-4 (2 T 4)

- N.B. :— (1) Question No. 1 is compulsory.

Time : Three Hours]

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(Contd.)

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- Discuss principle and procedure involved in the assay of any THREE :
- (a) Asprin

6.

- (b) Hydrogen peroxide
- (c) Calcium gluconate
- (d) Iodine solution
- (e) Phenol.
- 7. Write short notes on any THREE of the following :
 - (a) Primary and Secondary standards
 - Hot First Panker com (b) Methods of expressing concentration
 - (c) Masking and Demasking
 - (d) Thermogravimetry
 - (e) Henderson-Hasselbach equation.

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3×5=15

3×5=15

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