

Code No: PHR16222

R16**SET - 1****II B. Pharmacy II Semester Supplementary Examinations, April/May - 2019****PHARMACEUTICAL ANALYSIS-I**

Time: 3 hours

Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)2. Answering the question in **Part-A** is Compulsory3. Answer any **FOUR** Questions from **Part-B**

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**PART -A**

1. a) Write in brief on significance of Indian Pharmacopoeia in pharmaceutical analysis. (2M)
- b) Write the solvents used in non-aqueous titrations. (2M)
- c) Discuss the principle involved in permanganometry. (2M)
- d) What is Mohr's method? Give its applications. (2M)
- e) Write the advantages and disadvantages of gravimetry. (2M)
- f) What is Karl-Fisher reagent? (2M)
- g) Define the terms accuracy and precision. (2M)

**PART -B**

2. a) Write in detail on significant figures. (8M)
- b) What is calibration? Write the procedure followed for calibration of balance. (6M)
3. a) Write theory of acid-base titration. (4M)
- b) Write the principle and procedure involved in the assay of boric acid and aspirin. (10M)
4. a) Write short notes on redox indicators. (4M)
- b) Write the principle and procedure involved in the assay of ascorbic acid and copper sulphate. (10M)
5. a) Write short notes on indicators used in complexometric analysis. (8M)
- b) Explain the principle, chemistry and procedure involved in the assay of calcium gluconate. (6M)
6. a) With a neat scheme explain the steps involved in gravimetric analysis. (9M)
- b) Write the principle and procedure involved in the assay of barium sulphate. (5M)
7. a) Write the principle and procedure involved in nitrite titration methods. (6M)
- b) With a neat sketch write in detail on Hempel's apparatus used for gas analysis. (8M)