

Code No: PHR16222

R16**SET - 1****II B. Pharmacy II Semester Supplementary Examinations, Nov - 2018****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 Compulsory
3. Answer any **FOUR** Questions from **Part-B**
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PART -A

1. a) What is a monograph? (2M)
- b) How do you calibrate a measuring cylinder? (2M)
- c) What is buffer capacity? (2M)
- d) How KMnO_4 acts as an oxidizing agent? (2M)
- e) What is Werner's coordination number? (2M)
- f) Differentiate coagulation and precipitation. (2M)
- g) Write the principle involved in Karl-Fisher titration (2M)

PART -B

2. a) What are significant numbers? Write their significance in pharmaceutical analysis. (5M)
- b) Write in detail on sampling methods. (9M)
3. a) Differentiate aqueous and non-aqueous titrations. (5M)
- b) Write the principle, chemistry and procedure involved in the assay of boric acid and aspirin. (9M)
4. a) Write in brief on redox indicators. (5M)
- b) Write in detail on assay of hydrogen peroxide and sodium nitrite. (9M)
5. a) Write in detail on theory of complexation and chelating agents. (10M)
- b) Write assay of calcium gluconate. (4M)
6. a) Write the steps involved in gravimetric analysis. Write in detail on factors influencing precipitation. (9M)
- b) Write in brief on gravimetric assay of sulfate. (5M)
7. Write in detail on (14M)
(a) Nitrite titrations (b) Orsat's gas analysis apparatus