Roll No. | | | | | | | | | | | | |

Total No. of Pages : 02

Total No. of Questions : 13

B.Pharma (2017 & Onwards) (Sem.–1)

PHARMACEUTICAL ANALYSIS-I

Subject Code : BP-102T

M.Code : 74645

Time : 3 Hrs. Max. Marks : 75

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains THREE questions carrying TEN marks each and student has to attempt any TWO questions.**
3. **SECTION-C contains NINE questions carrying FIVE marks each and student has to attempt any SEVEN questions.**

SECTION-A

1. Explain briefly :

(a) What are primary standards in analysis?

(b) What is the purpose of limit test?

(c) Give examples of two self indicating titrants.

(d) Which indicator will you prefer for titration of acetic acid against sodium hydroxide?

(e) What are molar and normal solutions?

(f) What special treatment is given to water while preparing sodium thiosulphate solution?

(g) Define masking and demasking reagent.

(h) How precision of an experiment can be increased?

(i) Define conductometry.

(j) Differentiate between Iodimetry and Iodometry.

SECTION-B

2. What is gravimetric analysis? Discuss principle and steps involved in gravimetric analysis.

3. Enumerate different sources and types of error. How do we minimize systematic errors?

4. Explain the concepts of oxidation and reduction. Write detailed note on redox titrations.

SECTION-C

5. Discuss various sources of impurities in medicinal agents.

6. What are neutralization curves? Explain giving examples of each type.

7. Describe Modified Volhard's method in precipitation titrations.

8. Classify complexometric titrations. Write a note on estimation of Magnesium Sulphate.

9. Discuss co-precipitation versus post precipitation.

10. How do official estimation of Ephedrine hydrochloride was carried out?

11. Discuss basic principle and methods of diazotization titration.

12. Discuss in detail construction and working of indicator electrodes in potentiometry.

13. Define Polarography. Explain construction and working of dropping mercury electrode.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.