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

Total No. of Pages : 02

Total No. of Questions : 10

B.Pharma (2011 to 2016) (Sem.–4)

PHARMACEUTICAL ANALYSIS-II

Subject Code : BPHM-402

Paper ID : [D1141]

Time : 3 Hrs. Max. Marks : 80

INSTRUCTION TO CANDIDATES :

1. **SECTION-A is COMPULSORY consisting of FIFTEEN questions carrying TWO marks each.**
2. **SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.**
3. **SECTION-C contains FOUR questions carrying TEN marks each and students have to attempt any THREE questions.**

SECTION-A

1. Explain in brief :

a. Standard reduction potential.

b. Nernest Equation.

c. Carrier gases used in GC.

d. Partition coefficient.

e. Werner coordination number.

f. Define retention factor.

g. What are reference electrodes, give example?

h. Define weak bases with examples.

i. Principle of adsorption chromatography.

j. Column efficiency.

k. Types of pumps in HPLC.

l. Normal and reverse phase chromatography.

m. What are metal ion indicators, give example?

n. Dead stop titrations.

o. Principle of amperometric titrations.

SECTION-B

2. Write short note on interaction of radiations with matter.

3. Describe the chemical reactions, and titration conditions for titration of a weak acid by non aqueous titrimetry.

4. What are masking and demasking agents? Explain with suitable example.

5. Write a short note on Ion exchange chromatography.

6. Write a short note on high frequency titrations and their application.

SECTION-C

7. What is the function of detector in HPLC? What are salient features required for detector. Explain different detectors in HPLC.

8. Give an account of method used for quantitative determination of water /moisture determination with clear sketch of apparatus.

9. Name the different techniques used for extraction. Discuss the principle of Craige method for multiple extraction. And effect of various conditions in extractions.

10. What are coordination complexes? Explain Werner coordination theory. Give the structure of EDTA.