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

Total No. of Pages : 02

Total No. of Questions : 10

B.Pharma (2012 to 2016) (Sem.–4)

PHARMACEUTICAL ANALYSIS-II

Subject Code : BPHM-402

M.Code : 46232

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

Q1. Explain in brief :

a. Standard Reduction Potential and its significance.

b. Reverse phase Chromatography.

c. Guard Column and its significance.

d. Werner Coordination number.

e. Cation exchangers.

f. Half life period of radioactive material.

g. Relation of pH to potential.

h. Gradient pumps.

i. Define and give units of Specific conductance.

j. Name two indicators for non aqueous titrations.

k. Retention time and retention factor.

1. What are Ion selective electrodes?

m. Give principle of oxygen flask combustion.

n. Comment on stationary phases used in HPLC.

o. Enlist precautions while handling radioactive material.

SECTION-B

2. Full form of HETP and Factors affecting HETP.

3. Name and discuss nitrogen determining method covering its principle and applications.

4. Write a brief note on Craig method of multiple extractions.

5. Give principle, and application of Diazotisation titrations.

6. Taking a suitable example, explain the titration of weak acids by non-aqueous titrations.

SECTION-C

7. Give a detailed account of Ion exchange Chromatography.

8. Discuss theory, procedure and application of phase solubility analysis.

9. Discuss various types of electrochemical method of analysis, giving advantages and disadvantages.

10. Discuss the principle, application of polarographic titrations in detail.

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.