Roll No. | | | | | | | | | | | | | Total No. of Pages : 01

Total No. of Questions : 06

M.Pharmacy (Pharmaceutical Analysis) (2017 & Onwards) (Sem.–1)

ADVANCE PHARMACEUTICAL ANALYSIS

Subject Code : MPA-102T

Paper ID : [74694]

Time : 3 Hrs. Max. Marks: 75

INSTRUCTIONS TO CANDIDATES :

1. **Attempt any FIVE questions out of SIX questions.**
2. **Each question carries FIFTEEN marks.**

1. a. Give classification of impurities in active pharmaceutical ingredients.

   b. How to list and report the degradation product content of batches?

   c. Give classification of residual solvents by risk assessment.

2. a. Give the classification of elements on the basis of toxicity and occurrence in the drug products.

   b. Briefly describe various sources of elemental impurities in drug products.

   c. Discuss role of mean kinetic temperature in determining stability of a pharmaceutical product.

3. Discuss in detail ICH stability testing guidelines.

4. a. Describe the role of appropriate selection of markers for stability studies of phytopharmaceuticals.

   b. Describe fingerprint analysis approach using HPLC for quality control of phytopharmaceuticals.

5. a. Describe the assay procedure of oxytocin.

   b. Give the principle of assay for tetanus vaccine.

   c. Discuss the assay procedure for heparin sodium IP.

6. Describe various types of immunoassay. Discuss in detail enzyme linked immune sorbent assay.