Roll No. Total No. of Pages: 01

Total No. of Questions: 06

M.Pharmacy (Pharmaceutical Analysis) (Sem.-1) ADVANCED PHARMACEUTICAL ANALYSIS

Subject Code: MPA-102T M.Code: 74694

Date of Examination: 17-01-2023

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. Explain in brief:

- a. Impurities
- b. Principle of immunoassay
- c. Importance of Finger printing in stability testing
- d. Sampling frequency
- e. Limits of residual solvents.
- 2. Give a detailed account of classification of impurities in drug substances and their quantification as per ICH guidelines.
- 3. a. Give a detailed account on sources, classification and methods for identification of potential elemental impurities in Pharmaceutical products.
 - b. Comment on the affect of buffering species ionic strength and dielectric constant.
- 4. a. Write note on WHO and ICH stability testing guidelines.
 - b. Elaborate on stability studies and concepts of validation accelerated stability testing and shelf life prediction.
- 5. Give a detailed account on stability testing of Phyto-pharmaceuticals with special emphasis on protocols, finger printing and interactions with suitable examples.
- 6. a. Give the biological tests and assay of Rabies Vaccine and Heparin Sodium IP.
 - b. Give a detailed account on principle procedure and instrumentation of PCR studies for gene regulation.

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.

1 M-74694 (S31)-2475