

QP CODE: 212329

Reg. No:.....

Second Semester M.Pharm Degree Examinations July 2019

M.Pharm (Pharmaceutical Analysis)

Paper II: Modern Bio-Analytical Techniques (MPA 202T)

(2017 Scheme)

Time: 3 Hours

Total Marks: 75

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essays

(3x10=30)

1. Discuss in detail the principle and procedure for the solid phase extraction techniques used for extraction of drugs from matrices.
2. Explain in detail the EMEA guidelines for bioanalytical method validation.
3. Discuss on the importance and applications of toxicokinetic studies

Short Notes

(9x5=45)

4. Why drugs and metabolites needs to be extracted from the biological matrices.
5. Explain in brief the various *in vitro* methods used to study the permeability of pharmaceutical formulations.
6. The applications of LC-MS in bioactivity screening and proteomics.
7. What is the clinical significance of bioequivalence studies
8. Microsomal assay method.
9. Explain in brief the principle involved in MTT assay method.
10. Principle and applications of flow cytometry.
11. Explain in brief cryopreservation.
12. BCS classification of pharmaceuticals
