Second Semester M. Pharm Degree Regular/Supplementary Examinations May 2022

M.Pharm (Pharmaceutical Analysis)

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

Time: 3 Hours

- Answer all guestions to the point neatly and legibly Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together Leave sufficient space between answers
- Draw table/diagrams/flow charts wherever necessary

Essays

- 1. Enumerate the bioanalytical method validation parameters as per EMEA guidelines.
- 2. Define the term bioavailability. Add a note on the importance of bioavailability studies and methods employed for assessing the bioavailability studies.
- 3. Explain the effect of protein binding interaction studies. Discuss in detail the significance of plasma protein binding.

Short Notes

- 4. Principle and procedure involved in solid phase extraction technique.
- 5. Explain in brief the BCS classification of pharmaceuticals.
- 6. In vitro and in vivo methods employed to study the drug permeability.
- 7. Write a note on dissolution and drug release testing.
- 8. Explain in brief the drug interactions linked with transporters.
- 9. Applications of cell viability studies.
- 10. General procedure for isolation, subculture and cryopreservation of cells.
- 11. Advantages of microsomal approaches in metabolite identification.
- 12. Clinical significance of bioequivalence studies.

QP CODE: 212329

(3x10=30)

Total Marks: 75

(9x5=45)

Reg. No:.....