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Pharmaceutical Technology
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BRAINWARE UNIVERSITY

Term End Examination 2025-2026

Programme – M.Pharm(Pharmaceutics)-2024/M.Pharm(Pharmaceutics)-2025

Course Name – Advanced Biopharmaceutics & Pharmacokinetics

Course Code - MPH202T

(Semester II)

Full Marks : 75

Time : 3:0 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Short Answer Type Questions)

5 x 5=25

1. Discuss the steps involved in the absorption of the solid dosage form. (5)
2. Describe multi compartment modelling in pharmacokinetics. (5)
3. Explain BCS and discuss about different classification systems of drugs. (5)
4. Explain non-linear pharmacokinetics and discuss relative and absolute bioavailability. (5)
5. Explain the mechanism of action of targeted drug delivery systems. (5)

OR

Determine the potential drug interactions involving biotechnological products. (5)

Group-B

(Long Answer Type Questions)

10 x 5=50

6. What are the main methods used for dissolution and drug release testing in vitro? (10)
7. Explain the significance of biopharmaceutic factors affecting drug bioavailability. (10)
8. Explain the pH-partition theory of drug absorption. (10)
9. Explain the importance of conducting bioequivalence studies in different formulations. (10)

OR

- Compare biosimilar drug products, stating the assessment of their bioavailability. (10)
10. Explain drug product performance in vivo, along with the significance of bioavailability-bioequivalence studies. (10)

OR

Explain in detail the special concerns in BA and BE studies. (10)
