BRAINWARE UNIVERSITY

Term End Examination 2024-2025
Programme – M.Pharm(Pharmaceutics)-2024
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. Describe the different alternative methods of dissolution testing. (5)
2. Explain absolute and effective surface area. (5)
3. Describe multi compartment modelling in pharmacokinetics. (5)
4. Analyze the effect of protein binding on volume of distribution. (5)
5. Explain the pharmacokinetics of modified-release drug products. (5)

OR

Explain the pharmacokinetics and pharmacodynamics of biotechnological products. (5)

Group-B
(Long Answer Type Questions) 10 x 5=50

6. Describe the causes of non-linearity in pharmacokinetics. (10)
7. Explain the significance of biopharmaceutic factors affecting drug bioavailability. (10)
8. Explain about bioavailability and bioequivalence. (10)
9. Explain the factors that need to be considered in the assessment of generic biologics, as per FDA. (10)

OR

Explain drug product performance in vivo, along with the significance of bioavailability-bioequivalence studies. (10)

10. Explain the principles underlying drug absorption and their relevance to gastrointestinal drug delivery. (10)

OR

Critically evaluate the role of drug formulation and physicochemical factors in drug dissolution and gastrointestinal absorption. (10)

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