



BRAINWARE UNIVERSITY

Term End Examination 2023-2024

Programme – M.Pharm(Pharmaceutics)-2023

Course Name – Computer Aided Drug Development

Course Code - MPH203T

(Semester II)

Barabati, Bhubaneswar
10/11/2023

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-B

(Short Answer Type Questions)

5 x 5=25

1. What factors influence drug absorption in the gastrointestinal tract? (5)
2. Explain on the ethical considerations and challenges associated with the use of artificial intelligence in drug discovery and development. (5)
3. Summarise individually on the various softwares used for drug development. (5)
4. Mention the various phases of product development under QbD. (5)
5. Explain how do computational approaches contribute to the identification and optimization of drug candidates. (5)

OR

Explain the role of computational models and simulations in drug development. (5)

Group-C

(Long Answer Type Questions)

10 x 5=50

6. Brief on the SOP of design expert software and major technical challenges in tablet formulation and development. (10)
 7. Illustrate the significance of intellectual property in research and development. (10)
 8. Explain how have computers revolutionized clinical development processes in the pharmaceutical industry. (10)
 9. Illustrate on the current status of robotics and its future challenges. (10)
- OR
- Summarise the significance of "Optimization" in pharmaceutical field. (10)

10. Explain the challenges and limitations associated with computer-aided bio-pharmaceutical characterization. (10)

OR

Explain the role of computer simulation in pharmacokinetics, and how does it contribute to drug development and optimization. (10)

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