Exam Date & Time: 18-Jul-2022 (10:00 AM - 01:00 PM)

MANIPAL ACADEMY OF HIGHER EDUCATION

M Pharm - (Pharmaceutics)
Theory End-Semester Examinations.
Computer Aided Drug Delivery Systems [PCE-MPH203T]

Marks: 75   **Duration: 180 mins.**

SECTION - A

Answer all the questions.

Answer the following (10 marks x 5 = 50 marks)

1)	Write in detail about ICH Q8 guidelines	(10)
2)	Write about the importance of computational modelling in studying drug disposition. Briefly write about the approaches used in modelling the drug solubility	(10)
3)	What are the types of experimental design in R&D and explain factorial design and its limitations	(10)
4)	Explain the computer simulation in pharmacokinetics and pharmacodynamics of the whole organism.	(10)
5)	Discuss the importance of pharmaceutical automation	(10)

SECTION - B

Answer all the questions.

Answer the following (5 marks x 5 = 25 marks)

6)	Define confidence region and write its significance in statistical model	(5)
7)	What are nucleoside transporters. Briefly discuss about features and clinical significance of nucleoside transporters	(5)
8)	Explain the applicable legal protection of innovative uses of computers	(5)
9)	Explain about In-vitro In-vivo correlation	(5)
10)	Define computational fluid dynamics write its applications	(5)

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