

Sl.No: M2045

Course Code: MPH203T

**VINAYAKA MISSION'S RESEARCH FOUNDATION  
(DEEMED TO BE UNIVERSITY), SALEM**

**M.PHARM. DEGREE EXAMINATION – JANUARY 2021  
Second Semester**

**BRANCH: PHARMACEUTICS**

**COMPUTER AIDED DRUG DEVELOPMENT**

Time : Three hours

Maximum: 75 marks

**(Draw neat labeled diagrams wherever necessary  
your answer should be specific to the questions asked)**

**SECTION –A**

I. Answer any **THREE** questions: **(3 x 15 = 45)**

1. Discuss the optimization parameters and different optimization techniques in formulation development.
2. Enumerate the history of computers in pharmaceutical research and development.
3. What is modeling? Explain computational modeling of drug disposition.
4. The applications of computer in various intellectual property rights of pharmaceutical R & D.

**SECTION –B**

II. Answer any **THREE** questions: **(3 x 10 = 30)**

5. Explain about efflux transporters with suitable examples.
6. What are the bio waiver considerations to be considered to get the exception for in vivo studies?
7. Artificial intelligence and robotics.
8. Applications of scientifically based QbD.

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