

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

**M.PHARM. DEGREE EXAMINATION – July 2019
Second Semester**

BRANCH: PHARMACEUTICS

COMPUTER AIDED DRUG DELIVERY SYSTEM

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.Explain in detail about computers in pharmaceutical research and development.
- 2.What is modeling? Explain Computational Modeling of Drug Disposition.
- 3.Write in detail about computers in pharmaceutical formulations.
4. Write the role of computers in clinical development.

SECTION –B

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

5. Write a note on Quality by Design (QbD) in Pharmaceutical Development
6. Write in detail about in vitro dissolution and In vitro – in vivo correlation
7. Explain the computer simulations in pharmacokinetics and pharmacodynamics.
8. Explain in detail about robotics and computational fluid dynamics
