

QP CODE: 213327

Reg. No:.....

Second Semester M.Pharm Degree Examinations August 2018

M.Pharm (Pharmaceutics)

Paper III: Computer Aided Drug Development (MPH 203T)

(2017 Scheme)

Time: 3 Hours

Total Marks: 75

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essays

(3x10=30)

1. Explain in detail about the computer aided formulation development of pharmaceutical emulsion
2. Describe about the computational modeling of the pharmacokinetic parameters
3. Discuss about artificial intelligence and robotics in pharmaceutical automation

Short Notes

(9x5=45)

4. Genetic algorithm linked to a neural network for modeling and optimization
5. Descriptive VS mechanistic modeling
6. Regulatory industry views on QbD
7. Nucleoside transporters and BBB-choline transporter
8. Ethics of computing in pharmaceutical research
9. Simulation in GI absorption
10. Computer simulation in whole organism and isolated tissues
11. Computer in data management
12. Regulation of computer systems
