Second Semester M.Pharm Degree Supplementary Examinations January 2019

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 computer aided formulation development with respect to emulsions.

2. Write in detail about computational modelling of drug disposition.

3. Explain about computer in clinical data collection and management

Short Notes   **(9x5=45)**

4. Optimal design.

5. Different levels of *in vitro* and *in vivo* correlation.

6. Nucleoside transporters.

7. Pharmaceutical automation.

8. Robotics and its application.

9. History of computer in pharmaceutical research and development.

10. Current challenges and future directions of artificial intelligence.

11. Bio waiver considerations.

12. Sensitivity analysis

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