QP CODE: 213327   Reg. No:…………………

**Second Semester M. Pharm Degree Regular/Supplementary Examinations
February 2021
M.Pharm (Pharmaceutics)**

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

Time: 3 Hours   **Total Marks: 75**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essays   **(3x10=30)**

1. Narrate the computational modeling of drug disposition

2. Explain about the computer aided formulation development of pharmaceutical micro emulsion

3. Define optimization and describe about the concept of optimization, optimization parameters and factorial design with the use of computers

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

4. Population modeling

5. Scientifically based QbD and its applications

6. Legal protection of innovative uses of computers in research and development

7. Computers in market analysis

8. Bio wavier considerations

9. Computer simulation in organs and genes

10. Regulation of computer systems.

11. Computational fluid dynamics

12. Artificial intelligence using robotics in pharmaceutical automation

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