

M.Pharm. F.Y. (Pharmaceutics) CBCS Pattern Semester-II  
**MPH203T - Computer Aided Drug Delivery System**

P. Pages : 1

Time : Three Hours



**GUG/W/24/14180**

Max. Marks : 75

- Notes :
1. Diagrams and Chemical equation should be given wherever necessary.
  2. All questions are compulsory.

- 1. Solve any ten. 10x2  
=20**
- i) Define computer.
  - ii) QbD
  - iii) hpetp
  - iv) Define Bioavailability.
  - v) Use of computer in pharmacokinetic.
  - vi) What do you mean by solubility.
  - vii) p-gp
  - viii) Define drug absorption.
  - ix) Optimization means what
  - x) Uses of computer in R and D
  - xi) Pharmacodynamic
  - xii) Artificial Intelligence
- 2. Solve any two. 2x10  
=20**
- i) Explain role of computer in clinical data collection and management.
  - ii) Explain different optimization technique in formulation development.
  - iii) Explain various statistical model in pharmaceutical Research and development.
- 3. Solve any five. 5x7  
=35**
- i) Role of Nucleoside transporter.
  - ii) Application of QbD
  - iii) Application of computer in patent
  - iv) Benefit of QbD in industry and regulation bodies.
  - v) Robotics and its application.
  - vi) Describe biowaiver consideration.
  - vii) Note on invitro and invivo correlation.

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