

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

P. Pages : 1

Time : Three Hours



**GUG/S/25/14180**

Max. Marks : 75

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- Notes :
1. Assume suitable data wherever necessary.
  2. Illustrate your answers wherever necessary with the help of neat sketches.
  3. All questions are compulsory.

- 1. Elaborate any 10 out of 10** **10x2  
=20**
- 1) Define solubility.
  - 2) Artificial intelligence
  - 3) What do you mean by Quality – by – Design
  - 4) Enlist optimization parameters
  - 5) Define computer
  - 6) Advantages of AI
  - 7) OCT stands for.
  - 8) ICHQ guideline any two
  - 9) Optimization
  - 10) Define Drug excretion
- 2. Solve any 5 out of 7** **5x7  
=35**
- 1) Explain Benefits of Quality – by – design in industry and regulation bodies.
  - 2) Bio-medical stimulation
  - 3) Explain Role of compiler in pharmaceutical formulation.
  - 4) Explain statistical model.
  - 5) Note on P-qp
  - 6) Explain Drug distribution in CADDS
  - 7) Explain Robotics and Artificial intelligence.
- 3. Solve any 2 out of 3** **2x10  
=20**
- 1) Explain in details about ICHQ8 guideline
  - 2) Explain experimental design in optimization of pharmaceutical formulation
  - 3) Explain statistical modeling in pharmaceutical research and development.

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