

**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[M.PHARM 0823]**

**AUGUST 2023  
(APRIL 2023 EXAM SESSION)**

**Sub. Code: 2937**

**M.PHARMACY DEGREE EXAMINATION  
SEMESTER - II (PCI New Regulations 2016)  
PHARMACEUTICS - MPH  
PAPER III – COMPUTER AIDED DRUG DELIVERY SYSTEM**

*Q.P. Code: 262937*

**Time : Three hours**

**Answer ALL Questions**

**Maximum : 75 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Write in detail about Computer Aided Biopharmaceutical characterization in Gastrointestinal absorption simulation.
2. Explain about History of Computers in Pharmaceutical Research and Development.

**II. Write notes on**

**(7 X 5 = 35)**

1. Write about Computational Modeling Techniques of Drug Absorption and solubility.
2. Statistical Modeling in Pharmaceutical Research.
3. Explain about Optimization Parameters.
4. In vitro – in vivo correlation.
5. Write about Pharmaceutical Automation.
6. Current Challenges and Future Directions of Artificial Intelligence.
7. Computers in Clinical Data development.

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