

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

**[M.PHARM 0922]**

**SEPTEMBER 2022  
(APRIL 2022 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. a) Computer simulation in whole organism and isolated tissues.  
b) Explain about statistical modeling.
2. Define optimization. Explain the significance of optimization and factorial design.

**II. Write notes on:**

**(7 x 5 = 35)**

1. ICH Q8 guidelines.
2. Modelling techniques for absorption and solubility.
3. Active transport.
4. Role of computer in Market analysis.
5. History of computers in pharmaceutical research and development.
6. Add a note on Virtual trial.
7. Computational fluid dynamics.

\*\*\*\*\*