

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

**[MPHARM 0122]**

**JANUARY 2022  
(APRIL 2021 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. Explain the role of computers in clinical data collection and management.
2. Write in details about the various statistical modeling in pharmaceutical research and development.

**II. Write notes on:**

**(7 x 5 = 35)**

1. Application of scientifically based QbD.
2. Role of P-gp efflux transporter in drug disposition.
3. Describe different levels of In-vitro and In-vivo correlations.
4. Computer simulation in whole organisms.
5. What is artificial intelligence? Mention its application.
6. Application of factorial design in development of pharmaceutical emulsion.
7. Describe biowavier consideration.

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