

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

[M.PHARM 0524]

**MAY 2024
(APRIL 2024 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 about Computer Aided Formulation Development. Write in detail about Optimization, parameters and Optimization Technology.
2. Write about Computer simulations in Pharmacokinetics and Pharmacodynamics.

II. Write notes on

(7 X 5 = 35)

1. Write a note on Descriptive versus Mechanistic Modeling.
2. Discuss on Nucleoside Transporter and Choline Transporter.
3. Computers in Pharmaceutical formulation of Emulsion and Microemulsion.
4. Explain Biowaiver considerations.
5. Regulations of Computer systems.
6. Computational Fluid dynamics.
7. Write a note Artificial Intelligence (AI).
