

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

[M.PHARM 0524]

**MAY 2024
(APRIL 2024 EXAM SESSION)**

Sub. Code: 2933

**M.PHARMACY DEGREE EXAMINATION
SEMESTER - I (PCI New Regulations 2016)
PHARMACEUTICS - MPH
PAPER III – MODERN PHARMACEUTICS**

Q.P. Code: 262933

Time: Three hours

Answer ALL Questions

Maximum: 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Explain the objectives, policies of cGMP, layout of buildings, services, equipments and their maintenance.
2. Explain in detail about the user requirement specification, design qualification, installation qualification, operational qualification and performance qualification of facilities.

II. Write notes on:

(7 x 5 = 35)

1. Discuss about various types of pharmaceutical validation.
2. State the ANOVA test.
3. Explain the various distribution forces involved in the tablet compression process.
4. Discuss the theories of pharmaceutical dispersions.
5. Describe in detail about similarity factors f_2 and f_1 .
6. Discuss about the response surface method in optimization technique.
7. Mention the various techniques to improve the solubility of poorly water soluble drugs.
