

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

[LP 933]

NOVEMBER 2019

Sub. Code: 2933

**M.PHARM. DEGREE EXAMINATION**  
**(PCI New regulations 2016)**  
**SEMESTER-I**  
**BRANCH I – PHARMACEUTICS – MPH**  
**PAPER III – MODERN PHARMACEUTICS**

*Q.P. Code : 262933*

**Time : Three hours**

**Maximum : 75 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. What is the importance of optimization? Classify and explain the different methods of optimization.
2. Discuss the preformulation studies for pharmaceutical formulations.

**II. Write notes on:**

**(7 x 5 = 35)**

1. Add a note on similarity and differential factors.
2. Physics of tablet compression.
3. Explain the concept of Total quality management.
4. What are the key elements of validation Master plan?
5. Describe the spectroscopic techniques of analyses of drug-excipient interaction study.
6. Write the applications of factorial design in formulations.
7. What are the guidelines to be followed for production of User Requirements Specification (URS)?

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