

Sl.No: M21132

Course Code: MPH103T

**VINAYAKA MISSION'S RESEARCH FOUNDATION
(DEEMED TO BE UNIVERSITY), SALEM**

**M.PHARM. DEGREE EXAMINATION – September 2021
First Semester**

**BRANCH: PHARMACEUTICS
MODERN PHARMACEUTICS**

Time : Three hours

Maximum: 75 marks

**(Draw neat labeled diagrams wherever necessary
your answer should be specific to the questions asked)**

SECTION –A

I. Answer any **THREE** questions: **(3 x 15 = 45)**

1. Write the detail physics of tablet compression and compaction profiles.
2. Discuss the design of experiments factorial design for product and process development.
3. Define pharmaceutical validation and write its scope and merits. Discuss the general guidelines for the validation and calibration of pharma equipment.
4. Define dissolution and discuss the diffusion layer theory that influence drug dissolution using Noyes – Whitney's equation.

SECTION –B

II. Answer any **THREE** questions: **(3 x 10 = 30)**

5. Explain the kinetic of stability and stability testing.
6. Write in detail inventory management and control sales of forecasting and cost control.
7. What is ANOVA? If there is a significant difference, where? Specifically mention any two differences.
8. Concept and objective of dissolution testing. Explain in detail similarity factors F_1 & F_2 in dissolution.
