

Sl.No: M21131

Course Code: MPH102T

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

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

**BRANCH: PHARMACEUTICS**

**DRUG DELIVERY SYSTEM**

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. Explain the concept of sustained release products. Discuss the biological factors of the drug in the design of SR products.
2. Explain the customized drug delivery system with suitable examples.
3. Elaborate the method to overcome the barriers for ocular drug delivery system (ODDS).
4. Explain challenges associated with formulation of buccal drug delivery system and explain evaluation test for buccal formulations.

**SECTION –B**

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

5. Discuss the strategies used for mucosal and transdermal delivery of vaccines.
6. Structure of skin and permeation of TDDS and evaluation of TDDS products.
7. Justify the utility of 3D printing technique in pharmaceuticals and explain the telepharmacy and its important.
8. Write a notes on merits, demerits, structure of oral mucosa and buccal absorption.

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