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Total No. of Pages : 02

Total No. of Questions : 06

M.Pharmacy (Pharmaceutics) (2017 & Onwards) (Sem.-1)**DRUG DELIVERY SYSTEM**

Subject Code : MPH-102T

M.Code : 74658

Time : 3 Hrs.

Max. Marks : 75

INSTRUCTIONS TO CANDIDATES :

1. Attempt any FIVE questions out of SIX questions.
2. Each question carries FIFTEEN marks.

1.
 - a) What is smart / intelligent polymer? Discuss polymers as integral component of Pharmaceutical dosage forms.
 - b) Write a short note on mucosal transdermal delivery of vaccines.
 - c) Explain the mechanism of drug delivery from sustained release/controlled release formulation.
2.
 - a) Give the principle which affect skin also discuss the factors of drug absorption.
 - b) Explain in detail dosage forms for personalized medicine.
 - c) Define vaccines. Discuss in detail single shot.
3.
 - a) What do you understand by gastroretentive systems. Discuss it advantages and disadvantages.
 - b) Discuss the evaluation of transdermal drug delivery system.
 - c) Discuss Fick's first and second law of drug release with illustration.
4.
 - a) Write a note on formulation strategies for protein and peptides based drugs.
 - b) Discuss the principle of mechanically activated drug delivery system.
 - c) Discuss the mechanism of drug release of SR/CR.





5.
 - a) Explain the barriers of drug permeation in ocular drug delivery systems(ODDS).
 - b) Give classification and applications of biodegradable polymers.
 - c) Write a short note on telepharmacy.
6. Write a note on **any three** :
 - a) Bioelectronic medicines.
 - b) Enzyme activated system.
 - c) Evaluation of buccal drug delivery system.
 - d) Barriers of protein delivery.
 - e) Transdermal delivery of vaccines.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

