

Library

MPH 102 T

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**M. PHARMACY DEGREE EXAMINATIONS, JULY - 2022**

**First Semester  
PHARMACEUTICS**

**DRUG DELIVERY SYSTEM**

Time : **Three Hours**

Maximum : **75 Marks**

**SECTION - A**

**Answer any FIVE Questions.**

**5x5 = 25 M**

1. Write a note on 3D printing of pharmaceuticals.
2. Discuss the principles of modulated drug delivery systems.
3. Discuss the approaches & modulation to extend GI transit time.
4. Explain the uptake of antigens in vaccine drug delivery system.
5. Write about different approaches to overcome ocular barriers.
6. Discuss about various formulation approaches in protein and peptide delivery systems.
7. Describe various theories to explain mucoadhesion.

**SECTION - B**

**Answer any FIVE Questions.**

**5x10 = 50 M**

8. Discuss the physicochemical and biological factors influencing design of SRDDS.
9. Classify polymers and write the applications of polymers in controlled drug delivery systems. Add a note on Bioelectronic medicines.
10. Write a short note on osmotic activated drug delivery systems and mechanically activated drug delivery system.
11. What are buccal drug delivery systems ? Write a detail note on merits, demerits structure of oral mucosa and buccal absorption.
12. Define protein and peptide delivery systems. Add a note on barriers for protein delivery.
13. Explain various essential components of transdermal drug delivery systems and discuss various evaluation tests for TDDS.
14. a) Discuss the methods to enhance drug permeation through transdermal route.  
b) Write about preparation and evaluation of gastroretentive floating tablets.



Total No. of Questions : 14 ]

**M. PHARMACY (SUPPLE) DEGREE EXAMINATIONS, JANUARY - 2022**

**First Semester  
PHARMACEUTICS  
DRUG DELIVERY SYSTEM**

Time : **Three Hours**

Maximum : **75 Marks**

**SECTION - A**

**Answer any FIVE Questions.**

**5x5 = 25 M**

1. Write a note on Pharmacogenetics.
2. Write methods to enhance drug permeation through transdermal route.
3. Explain about newer trends in delivery of vaccines.
4. Discuss the evaluation of mucoadhesive drug delivery.
5. Write the merits and demerits of buccal drug delivery systems.
6. Classify the categories of patients for personalised medicine.
7. Write about
  - a) Occuserts.
  - b) Uptake of antigens.

**SECTION - B**

**Answer any FIVE Questions.**

**5x10 = 50 M**

8. Discuss the preparation and evaluation of gastro retentive floating tablets.
9. Explain the concepts and design of rate controlled drug delivery systems.
10. Describe the various formulation approaches for delivery of proteins and macromolecules.
11. Explain about modulation of GI transit time approaches to extend GI transit time.
12. Explain about osmotic activated drug delivery system.
13. a) Write the applications of polymers in controlled drug delivery system.  
b) Write about elementary osmotic pump.
14. Describe in detail about ocular drug delivery system.



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**M.PHARMACY (Regular) DEGREE EXAMINATIONS, FEB/MAR-2020**

**First Semester**

**M.PHARMACY**

**PHARMACEUTICS**

**DRUG DELIVERY SYSTEM**

**Time: Three Hours**

**Maximum marks:75**

**SECTION-A**

**Answer any FIVE Questions**

**5X5=25M**

1. Write about categories of patients suitable for personalized medicine.
2. Explain the principle of enzyme activated drug delivery.
3. Explain the drug transport from buccal delivery.
4. Enumerate the physico-chemical properties of drug suitable for ocular drug delivery.
5. Discuss the significance of transdermal flux in the design of transdermal drug delivery systems.
6. Write about the physical stability problems of proteins and peptides.
7. Mention the advantages of single shot vaccines.

**SECTION-B**

**Answer any FIVE Questions**

**5X10=50M**

8. Give the differences between sustained and controlled drug delivery systems. Discuss the characteristics of drugs suitable for these systems with suitable examples.
9. Mention the need for modulation of drug delivery and explain different types of modulated drug delivery systems.

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10. Explain the evaluation tests for mucoadhesive formulations.
11. Enumerate the formulation additives suitable for transdermal drug delivery.
12. Enumerate the barriers for protein and peptide delivery.
13. Give the classification of controlled ocular drug delivery systems and write about applications of hydrogels in ocular drug delivery.
14. Write notes on the following
  - a) Pharmacogenetics
  - b) Transdermal delivery of vaccines



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**M.PHARMACY (Supply) DEGREE EXAMINATIONS, AUGUST-2019**

**First Semester**

**PHARMACEUTICS**

**DRUG DELIVERY SYSTEM**

**Time: Three Hours**

**Maximum marks:75**

**SECTION-A**

**Answer any FIVE Questions**

**5X5=25M**

1. Write about penetration enhancers?
2. Write a note on Bioelectronic medicines?
3. Discuss in detail about Iontophoresis?
4. Explain about single shot vaccines?
5. Describe about transdermal delivery of vaccines?
6. Elaborate the principle involved in mucoadhesive drug delivery system?
7. Write a note on barriers for protein delivery?

**SECTION-B**

**Answer any FIVE Questions**

**5X5=25M**

8. Discuss in detail the use of polymers in rate control mechanism of controlled release devices?
9. Discuss the fabrication and applications of control drug delivery system?
10. Describe the principle and fundamentals of various types of enzyme activated drug delivery system?
11. Explain the principle and various approaches to formulate gastroretentive drug delivery system?

12. Explain in detail the drug permeation and the methods for ocular drug delivery of drugs.
13. Explain the characteristics of drugs to be formulated as transdermal drug delivery system. Write about formulation and evaluation in detail.
14. Illustrate the biomedical applications with examples of therapeutic peptides and proteins?

