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Total No. of Pages : 02

Total No. of Questions : 22

B.Pharma (Sem.-7)
NOVEL DRUG DELIVERY SYSTEM-THEORY
Subject Code : BP-704T
M.Code : 78390

Time : 3 Hrs.

Max. Marks : 75

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains THREE questions carrying TEN marks each and student has to attempt any TWO questions.
3. SECTION-C contains NINE questions carrying FIVE marks each and student has to attempt any SEVEN questions.

SECTION-A

Answer briefly :

- 1) Give the differences between controlled and sustained release formulations.
- 2) What is the need for mucoadhesive systems? Mention their advantages.
- 3) Write the principle and advantages of osmotic drug delivery systems.
- 4) What are hydrogels? Mention the applications of hydrogels.
- 5) Write the principle and advantages of pH dependent systems.
- 6) Write the differences between biodegradable and biocompatible polymers. Give two examples of each.
- 7) Write about the role of permeation enhancers in transdermal drug delivery systems with suitable examples.
- 8) Mention the advantages and disadvantages of drug targeting and give suitable examples of diseases for which targeting is required.
- 9) Write the principle in the formulation of altered density systems. Mention their applications.
- 10) Write the qualities of drugs suitable for controlled release dosage forms.

SECTION-B

- 11) Write the principle advantages and disadvantages, methods of preparation and application of liposomal drug delivery systems.
- 12) Enumerate the characteristics of drug to the formulated as TDDS. Discuss the different methods of formulating and evaluation of Transdermal Drug Delivery Systems.
- 13) Explain the design and evaluation of controlled release formulations with suitable example.

SECTION-C

- 14) Discuss the role of plasticizers in transdermal drug delivery systems.
- 15) Explain the mechanisms of drug release from controlled release dosage forms and how they are established.
- 16) Write about the evaluation tests meant for mucoadhesive systems.
- 17) Give the classification of polymers based on their structure with suitable examples.
- 18) Differentiate between dissolution controlled and diffusion controlled systems. Mention their relative advantages.
- 19) Write about stability problems of liposomes and approaches for stabilization.
- 20) Write the applications of natural gums in the design of controlled drug delivery.
- 21) Explain the principle of osmotic drug delivery systems.
- 22) Explain the formulation and evaluation of reservoir and matrix type systems.

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.