

[Total No. of Questions - 15] [Total No. of Printed Pages - 2]
(2063)

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B. Pharmacy 2nd Semester Examination

Advanced Pharmaceutics

MP-121

Time : 3 Hours

Max. Marks : 90

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary continuation sheet will be issued.

- Note :** (i) Do any one question from Section A.
(ii) Do any three questions from Section B.
(iii) Do any seven questions from Section C.

SECTION - A

1. (a) Write in detail about composition & Methods of preparation of Liposomes. **(15)**
(b) Define smart polymers. Write about Pulsatile system of Drug delivery. **(10)**
2. Write about various factor affecting drug penetration through skin. Write in detail about various types of transdermal drug delivery systems with special emphasis on Mechanism of drug release. **(25)**

SECTION - B

3. Write about various advances in Pulmonary drug delivery. **(10)**

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4. Define optimization. Write about Response surface methodology. (10)
5. What are the major consideration for ocular drug delivery. Write short note on Occuserts. (10)
6. Write short note on Hydrodynamically balanced & ion exchange resin oral drug delivery systems. (10)

SECTION - C

7. Classify Bioadhesive polymers. Write about various polysaccharides used as Bioadhesive polymers. (5)
8. Write about various advantages of Nanoparticles. (5)
9. What do you mean by ex-vivo evaluation. (5)
10. What are the major biopharmaceutical consideration in formulation of controlled drug delivery. (5)
11. Write about various penetration enhances for drug absorption through membranae. (5)
12. How stability of resealed erythrocyte be maintained. (5)
13. Write about various diffusion cells used for in vitro transdermal system evaluation. (5)
14. What are various applications of Noisome. (5)
15. Write about formulation of gastoretentive drug delivery. (5)