

[Time: 3 Hours]

[Max. Marks: 100]

ADVANCES IN DRUG DELIVERY SYSTEMS**(RS 2 & RS 3)****Q.P. CODE: 9284**

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary. Answer all questions

LONG ESSAY (Answer any TWO)**2 X 20 = 40 Marks**

1. a) What is your understanding of targeted drug delivery systems? What are their limitations.
b) Explain the different approaches available for targeting of drugs to brain.
2. a) Give the classification of different transdermal drug delivery system.
b) What are their relative advantages? explain the formulation and evaluation of TDDS
3. Discuss in detail how the physico chemical properties of a drug influences the design and performances of SR DDS.

SHORT ESSAY (Answer any FIVE)**5 X 10 = 50 Marks**

4. Applications of polymers and classifications of polymers in CDDS.
5. Explain osmotic pressure CDDS.
6. Give the applications of implantable DDS.
7. Mulo Abhesve DDS
8. Give the advantage and disadvantage of buccal DDs.
9. What are the factors influencing permeation.

SHORT NOTES**2 X 5 = 10 Marks**

10. Nasal drug absorption
11. Ophthalmic inserts.

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