

[LL 343]

OCTOBER 2017

Sub. Code: 2904

**M.PHARM. DEGREE EXAMINATION  
FIRST YEAR  
BRANCH I – PHARMACEUTICS  
PAPER IV – ADVANCES IN DRUG DELIVERY SYSTEM**

*Q.P. Code : 262904*

**Time : Three hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Explain the characteristics of an ideal polymer to be used in CDDS? Discuss biodegradable polymers commonly used in the preparations of Novel drug delivery systems.
2. What are the advantages of targeted drug delivery systems? Discuss in detail about liposomal formulations for drug targeting.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Influence of physico chemical properties in the development of sustained release dosage forms.
2. Prodrug and solubilisation approach for bio-availability enhancement.
3. Insulin pump as CDDS module.
4. Role of Ion exchange resin in SR formulations.
5. *In vitro* evaluations of transdermal drug delivery systems.
6. Buccal drug delivery system.
7. Systemic absorption of drugs through nasal route.
8. Ocular inserts and its evaluations.
9. Particulate carriers.
10. Antibody based drug delivery system.

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