

[LF 343]

OCTOBER 2014

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. Define Mucoadhesive drug delivery systems and the various methods of preparation and evaluation.
2. Discuss the design and development of controlled release oral drug delivery system.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Physiochemical properties of drug influencing design of Sustained release preparations.
2. Biodegradable polymers
3. Implants
4. Long acting penicillin preparations
5. Evaluation of transdermal drug delivery systems
6. Ophthalmic *in situ* gels
7. Liposomes
8. Buccal strips
9. Feedback regulated drug delivery systems
10. Nanoparticles

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