

[LH 343]

OCTOBER 2015

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. Discuss in detail the biological factors influencing the performance of sustained release drug delivery system. How route of administration have impact on the therapeutic outcomes of drug? Explain with example.
2. Explain the basic concept of target oriented drug delivery system. Write note on colon targeting.

II. Write notes on:

(10 x 6 = 60)

1. Classification of polymers.
2. Activation modulated drug delivery system.
3. Long acting steroid preparations.
4. Factors affecting permeation and permeation enhancers in transdermal delivery system.
5. Gel diffusion controlled oral drug delivery system.
6. Buccal strips.
7. Nasal drug delivery system.
8. Insitu gels.
9. In vitro evaluation of controlled release drug delivery.
10. Implants.
