

[LI 343]

APRIL 2016

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 various approaches for injectable controlled release formulations. Add note on long acting Contraceptives.
2. Discuss in detail the formulation and evaluation of ocular controlled delivery system. Describe Insitu Gels.

II. Write notes on:

(10 x 6 = 60)

1. Factors influencing the design of sustained release drug delivery system.
2. Micro encapsulation technique.
3. Polymers used in controlled drug delivery systems.
4. Activation modulated drug delivery system.
5. Evaluation of transdermal drug delivery system.
6. Dissolution controlled drug delivery system.
7. Permeation enhancers in muco adhesive delivery system.
8. Nasal absorption enhancement.
9. Resealed erythrocytes.
10. Monoclonal antibodies.
