

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[LP 343]

OCTOBER 2019

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. What are the Basic components of TDDS and factors affecting permeation of drug through skin?
2. Explain the formulation and evaluation of ocular controlled drug delivery systems.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Biological factors influencing design and performance of SRDDS.
2. Application of polymers in formulation of controlled drug delivery system.
3. Classification of Rate programmed drug delivery system.
4. Long acting Insulin preparations.
5. Membrane and osmotic pressure controlled release oral drug delivery system.
6. Nasal drug delivery system.
7. Ophthalmic inserts and insitu gels.
8. Resealed erythrocytes.
9. Advantages and disadvantages of microencapsulation process.
10. Rationale of SRDDS.

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