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: $(2 \times 20 = 40)$

1. Describe the Formulation approaches used in the development of Transdermal delivery systems. Explain the evaluation for the same.

2. What is mucoadhesive drug delivery system? Discuss the concept of Buccal delivery in detail. Write a note on pulmonary drug delivery system.

II. Write notes on: $(10 \times 6 = 60)$

- 1. Influence of physicochemical properties of drug in the design of sustained drug delivery systems.
- 2. Natural polymers used in controlled drug delivery system.
- 3. Long acting Insulins.
- 4. Osmotic pressure controlled oral drug delivery system.
- 5. Ophthalmic inserts.
- 6. Vesicular carriers.
- 7. Magnetic microspheres.
- 8. Rate programmed drug delivery system.
- 9. Ion exchange controlled delivery system
- 10. Invivo evaluation of controlled release drug delivery systems.
