First Semester M.pharm Degree Examinations April 2018

M.Pharm (Pharmaceutics)

Paper II – Drug Delivery System (MPH 102T)

Time: 3 Hours   **Total Marks: 75**

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essays   **(3x10=30)**

1. Discuss the basic concepts, advantages and disadvantages of sustained release formulations.

2. What are different types of transdermal drug delivery systems. Explain the components used in the development of these systems.

3. Explain different approaches used to extend gastrointestinal transit

Short Notes   **(9x5=45)**

4. Classify polymers. Write various applications of polymers in drug delivery.

5. Add a note on osmotic activated drug delivery systems.

6. Permeation enhancers used in transdermal drug delivery.

7. Ocuserts

8. Different delivery systems used to deliver proteins and peptides.

9. Explain feedback regulated drug delivery systems.

10. Advantages and disadvantages of buccal drug delivery systems.

11. 3D printing of pharmaceuticals.

12. Various systems used in the delivery of vaccines.

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