

Code: 17S08102

M.Pharm I Semester Regular Examinations February 2018

NOVEL DRUG DELIVERY SYSTEMS

(Common to IP and PT)

(For students admitted in 2017 only)

Time: 3 hours

Max. Marks: 60

Answer all the questions

- 1 Write in brief about various rate programmed release drug delivery systems.
- OR**
- 2 Write a short note on copolymers and write the applications of biodegradable and natural polymers in pharmacy.
- 3 Describe the different formulation techniques for mucoadhesive drug delivery systems and their evaluation tests.
- OR**
- 4 Write in detail about design of transdermal drug delivery systems.
- 5 Write in detail about the following and its applications:
 - (a) Multiple emulsions.
 - (b) Micro emulsions.
- OR**
- 6 Explain the formulation and evaluation tests of liposomes.
- 7 Write a brief note on the following:
 - (a) Monoclonal antibody.
 - (b) Gene therapy.
- OR**
- 8 Write in detail about different drug delivery techniques of peptide drugs.
- 9 Write a brief note on the following:
 - (a) Bioelectronic medicines.
 - (b) Telepharmacy.
- OR**
- 10 Write a brief note on 3D printing technology concepts for dosage design.
