

Code No. 1154/PCI

FACULTY OF PHARMACY**M. Pharmacy (Pharmaceutics) I-Semester (PCI) (Main) Examination, February 2018****Subject: Drug Delivery Systems****Time: 3 Hrs****Max. Marks: 75****Note: Answer any five questions. All questions carry equal marks.**

- 1 a) Discuss in detail abt biodegradable and natural polymers. (8)
b) Write a note on customized drug delivery system. (7)
- 2 Classify various types of rate preprogrammed drug delivery systems with suitable examples. (15)
- 3 Give detailed account of various formulation mechanisms in gastric retentive drug delivery system. (15)
- 4 a) Discuss in detail formulation approaches for TDDS with suitable examples. (10)
b) What are barriers of permeation for TDDS? (5)
- 5 a) Discuss abt different approaches to overcome ocular barrier. (8)
b) Explain uptake of antigen in vaccine delivery system with neat diagram. (7)
- 6 Write abt various formulation approaches and evaluation of protein and peptide delivery systems. (15)
- 7 a) Explain principle involved in mucoadhesion. Describe various theories to explain mucoadhesion. (8)
b) Explain in brief mechanism of drug release from sustained release formulation. (7)
- 8 Write a short note on
(a) Bioresponsive drug delivery systems. (8)
(b) pH activated drug delivery system. (7)
