

**FACULTY OF PHARMACY**

**M. Pharmacy (Pharmaceutics) I-Semester (PCI) (Suppl.) Examination,  
August 2018**

**Subject: Drug Delivery Systems**

**Time: 3 Hrs**

**Max. Marks: 75**

**Note: Answer any five questions. All questions carry equal marks.**

- 1 Discuss in detail physicochemical and biological factors influencing design of SRDDS. (15)
- 2 (a) Classify polymers and write the applications of polymers in controlled drug delivery systems. (8)  
(b) Write a note on 3D printing of pharmaceuticals. (7)
- 3 Write a short note on  
a) Osmotic activated drug delivery systems. (8)  
b) Mechanically activated drug delivery system (7)
- 4 What are buccal drug delivery systems? Write a detail note on merits, demerits, structure of oral mucosa and buccal absorption. (15)
- 5 a) Write the barriers for permeation of ocular drug delivery system? (5)  
b) Write abt mucosal and transdermal delivery of vaccines. (10)
- 6 a) Explain varis essential components of transdermal drug delivery system. (5)  
b) Explain in detail varis evaluation methods for TDDS. (10)
- 7 Define protein and peptide delivery systems. Add a note on barriers for protein delivery. (15)
- 8 a) What are methods to enhance drug permeation thrgh transdermal rte? (7)  
b) Describe in brief preparation and evaluation of gastro retentive floating tablets. (8)

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