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Roll No

MPY-204 (PCT)
M. Pharmacy II Semester Examination, June 2020
Novel Drug Delivery Technology

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) Write a note explaining dispersed and colloidal drug delivery system? 5
b) What are sustained release suspensions explain them? 4
c) Write a brief about SEDDS? 5
2. a) Explain about pelletization technique and how it is used in designing of modulated release drug delivery system? 7
b) Write about spray drying and spray congealing techniques. 7
3. a) Define novel drug delivery technology and mention the technologies that involve in this, explain them in a brief manner? 7
b) Explain about techniques developed for various controlled, sustained and fast release oral drug delivery systems? 7
4. a) Demonstrate in detailed about the designing of oral mucosal drug delivery systems and buccal patches and tablets? 5
b) Write a brief note on signal hydrophilic sandwich and eaglet technology? 5
c) What is peyer's patches lymphatic system? 4
5. a) Describe one and two compartment models in a concise way. 9
b) What is the first order absorption in multiple dosing? 5
6. a) Write regarding applications of pharmacokinetic principle in calculation of dose for sustained release dosage forms? 8
b) Write a note explaining In-Situ gels. 6
7. a) Write a brief note BCS system development of IVIVC? 7
b) Explain Cryopelletization? 7
8. Explain below and add examples where relevant:
a) Lozenges 5
b) Osmotic tablets 4
c) Maintenance dose 5
