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FACULTY OF PHARMACY

M.Pharmacy (pharmaceutics) I-Semester (PCI) (Main & Backlog) Examination, February 2020

| Tin | Subject: Drug Delivery System ne: 3hrs Max Marks: 75 | |
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| Note: Answer any five questions, all questions carry equal marks. | | |
| 1 | Explain physiochemical and biological approaches for designing SR formulations? | (15) |
| 2 | What do y mean by personalized medicines? Describe in detail bioelectronic medicines and telepharmacy. | (15) |
| 3 | Explain the principles of rate controlled drug delivery systems? Write a note on osmotically controlled drug delivery systems? | (15) |
| 4 | a) Mention different types of gastroretentive drug delivery system? Mention its advantages and disadvantages?b) Describe in detail buccal drug delivery system? | (5) (10) |
| 5 | Explain the principles and theories of mucoadhesion? Add a note on mechanisms mucosal drug permeation? | of (15) |
| 6 | a) Describe barriers of ocular drug delivery system and what are methods to overcome the same?b) Write a note on transdermal permeation enhancers? | (8) (7) |
| 7 | What are the barriers of protein drug delivery? Explain varis modified formulations of proteins and peptides to overcome the absorption barriers? | (15) |
| 8 | What are the advancements in vaccine delivery systems? Explain transdermal delivery of vaccines? | (15) |
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