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## FACULTY OF PHARMACY

M. Pharmacy (Pharmaceutics ) I-Semester (PCI)(Main & Backlog) Examination, January 2019

## Subject : Drug Delivery System

Time: 3 Hrs Note: Answer any Five Questions. All Questions Carry Equal Marks.	Max. Marks: 75
<ul> <li>1. (a) Compare sustained release, delayed release and controlled drug d with examples?</li> <li>(b) Define pharmacogenetics? Explain telepharmacy?</li> </ul>	elivery system 6 9
<ul> <li>2. (a) What do y me an by activation modulated system? Explain osmotic system?</li> <li>(b) Classify rate controlled drug delivery system? Explain feedback regular</li> </ul>	8
<ul> <li>3. (a) What are the barriers of buccal mucoadhesive drug delivery system? Nexamples of marketed mucoadhesive drug delivery system?</li> <li>(b) Explain in detail floating drug delivery systems?</li> </ul>	Aention two 7 8
<ul><li>4. (a) Describe formulation and evaluation of ocular drug delivery system?</li><li>(b) What are ocular insitu gels?</li></ul>	10 5
<ul><li>5. (a) Explain structure of skin? What are barriers of transdermal permeat the ideal properties of a drug candidate to permeate thrgh the skin?</li><li>(b) Classify transdermal permeation enhancers? Explain the mechanism cenhancers?</li></ul>	10
<ul><li>6. (a) Explain in detail varis strategies to formulate a stable protein and formulations?</li><li>(b) Describe physical and chemical stability of protein and peptides?</li></ul>	d peptide drug 8 7
<ul> <li>7. (a) Explain in detail mucosal and active transdermal methods of delive thr gh mucosa and skin?</li> <li>(b) Write a note on single shot vaccines?</li> </ul>	ering vaccines 8 7
<ul> <li>8. (a) Explain varis physiochemical and biological factors that influences the formulations?</li> <li>(b) Classify polymers? Explain properties of any two synthetic biodegradal</li> </ul>	10
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