Exam Date & Time: 27-Nov-2019 (02:00 PM - 05:00 PM)



2019-20 - Regulars - ISem 2 Common paper M-05:00 PM) in 26 Speech Speech

MANIPAL ACADEMY OF HIGHER EDUCATION

Drug Delivery Systems [PCE-MPH102T - S2]

	Drug Denvery Systems [PCE-WPH1021 - S2]	
Marks: 75	Duration: 18	0 mins.
	II Long Answers	
Answer al	I the questions.	
1)	Discuss the principle and composition of i) Ion exchange resin complex based drug delivery systems and ii) Matrix tablets in detail.	(10)
2)	Classify the various types of polymers with examples. Add a note on their applications.	(10)
3)	What are the formulation considerations for gastro-retentive dosage forms? Briefly explain Altered density and Expansive Gastro-retentive drug delivery systems.	(10)
4)	Write the principal of Osmotic pumps. Classify Oral Osmitic pumps and explain an ONE type in detail.	y (10)
5)	What are the barriers for protein and peptide delivery? Add a note on approaches fo oral delivery of proteins and peptides	r (10)
	III Short Answers	
Answer all	the questions.	
6)	What is the need for personalized medicine? Describe the categories of patients for personalized medicine	(5)
7)	Mention different Microencapsulation techniques and explain any ONE technique in detail.	(5)
8)	Add a note on the theories of mucoadhesion	(5)
9)	What are different types of Ocular inserts? Add a note on any ONE type of Ocular insert.	(5)
10)	Write about different components of Transdermal Delivery systems	(5)
End		

& Time: 02-Dec-2019 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Manipal Academy of Higher Education, Manipal MPharm Theory End-Semester Examinations.

Modern Pharmaceutics [PCE-MPH103T]

Duration: 180 mins. Marks: 75 **SECTION - A** Answer all the questions. Answer the following (10 marks x = 50 marks) Explain XRD, DSC, FTIR as an analytical tool for compatibility assessment of drug 1) (10)and excipient. Define Inventory control. Explain ABC and EOQ methods of Inventory control. 2) (10)Explain the physics of tablet compression. Describe the effects of friction during 3) (10)tablet compression. Discuss the various types of validation. 4) (10)Explain the simplex method of optimization. 5) (10)**SECTION - B** Answer all the questions. Answer the following (5 marks x = 25 marks) Explain SMEDDS and Phase Diagram. 6) (5)Describe the building requirements to be complied with for Current Good 7) (5)Manufacturing Practices. Discuss f1 and f2 factors for the comparison of dissolution profiles. 8) (5) Explain Korsmeyer Peppas kinetic model. 9) (5)10) Discuss validation master plan. (5)

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