about:srcdo

Exam Date & Time: 03-Dec-2018 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

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

Specialization: Pharmaceutics

DATE: 03-12-2018

Drug Delivery Systems [PCE-MPH102T]

Marks: 75 Duration: 180 mins.

SECTION - A

Answer all the questions. Answer the following (10 marks x = 50 marks) Explain the mechanism of mucoadhesion. How are mucoadhesive drug delivery 1) (10)systems evaluated? Discuss the physicochemical and biological approaches for SR/CR formulations 2) (10)Write a note on the various types of intra uterine devices (IUDs) 3) (10)Discuss the barriers for protein peptide delivery. What are the parameters to be 4) (10)considered for selection of suitable drug delivery system for protein delivery? (5+5) Explain the principal of Osmotic tablets. Classify Osmotic pumps and describe any 5) (10)ONE Oral Osmotic pump. **SECTION - B** Answer all the questions. Answer the following (5 marks x 5 = 25 marks) Write about the altered density dosage forms for modulation of GI transit time 6) (5)Mention different types of Ocular inserts. Add a note on any ONE type of Ocular 7) (5)insert. What are different types of Transdermal drug delivery systems and explain any ONE 8) (5)Write the principle of ion exchange resin based systems for oral controlled drug 9) (5)delivery. 10) Add a note on Permeation Enhancers used in Transdermal Systems (5)

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am Date & Time: 07-Dec-2018 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

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

Specialization: Pharmaceutics

Date:07-12-2018

Modern Pharmaceutics [PCE-MPH103T]

Duration: 180 mins. Marks: 75 **SECTION - A** Answer all the questions. Answer the following (10 marks x = 50 marks) Explain DSC, FTIR and XRD in regard to drug-excipient compatibility studies (10)1) Define emulsion. Classify emulsion. Enlist various tests to identify emulsion. 2) (10)Explain any one Explain ABC and EOQ methods of Inventory control (10)3) Explain korsmeyer-peppas and higuchi models to analyze the drug release kinetics 4) (10)from controlled drug delivery systems. Discuss different types of validation. (10)5) **SECTION - B** Answer all the questions. Answer the following (5 marks x = 25 marks) (5)Explain WFI, SWFI 6) Describe the effects of friction during tablet compression (5)7) What are the various optimization parameters? (5)8) How to avoid the worst response in the simplex method of optimization. (5)9) Discuss the model independent approach to compare dissolution profiles. (5)10) ----End----