AMAZON-II (CBCS - : SUMMER - 2015 SUBJECT : ADVANCED PHARMACEUTICS-II

Time: 10:00AM.TO 1:00 P.M. Thursday 02-07-2015 Day Date Max. Marks: 60. N.B.: 1) Attempt any THREE questions from Section-I and any THREE questions from Section-II. 2) Figures to the RIGHT indicate full marks. 3) Answers to both sections should be written in SEPARATE answer books. **SECTION-I** Q.1 Discuss design of controlled release ophthalmic drug delivery system. (10)Q.2 Write methods to obtain microsphers along with their evaluation and applications. (10)Write about development and evaluation of parentral drug delivery systems. (10)Q.4 Write short notes on: (10)Bioadhesive polymers a) b) Components and evaluation of transdermal patches. **SECTION-II** Q.5 Write about formulation approaches and evaluation of peptide and protein delivery. Q.6 Discuss issues and consideration of polymeric micelles for their design and development into final dosage form. Q.7 Discuss method of preparation, characterization and applications of nanoparticulate systems. Q.8 Write short notes on: (10)a) Intrauterine devices

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Monoclonal antibodies in targeted delivery.

b)

AMAZON-II (CBCS): SUMMER - 2015 SUBJECT: ADVANCED PHARMACEUTICS-III

Day: Time: 10:00 AM TO 1:00 PM Date: Max. Marks: 60 N.B.: 1) Attempt any THREE questions from Section-I and Attempt any THREE questions from Section-II. 2) Figures to the right indicate full marks. 3) Answers to both sections should be written in the SEPRATE answer book. SECTION-I Explain the influence of pH and pka on drug absorption. Q.1 [10] Q.2 Give a detailed account of kinetics of protein binding. [10]Q.3 Explain the different physiological barriers to drug distribution. [10] Q.4 Write elaborate notes on: [10] Methods to study drug absorption Bioactivation and its significance **SECTION-II** Q.5 Explain the approaches for bioavailability enhancement for BCS class III [10] drugs. Q.6 Derive the expression for plasma concentration applying the laplace transform [10] for a drug administered EV assuming one compartment model and first order kinetics. Q.7 Explain the estimation of km and Vm using the Michaelis Menten equation. [10] Q.8 Write notes on: [10] Non compartmental modeling Statistical Designs in BA-BE studies.