Exam.Code:1033 Sub. Code: 35404

Max. Marks: 50

2055

M. E. (Biotechnology) Second Semester Elective - II

MEBIO-205 (b): Pharmaceutical Biotechnology

Time allowed: 3 Hours

NOTE: Attempt five questions in all, including Question No. I which is compulsory.

- x-x-xI. Write short notes on following: a) Stealth liposomes b) Artificial enzymes c) Plasma protein binding d) Bioavailability e) Computer aided drug design (CADD) (5×2) II. What are the various mechanisms of drug absorption? Discuss the mechanism of passive diffusion. (10)III. Distinguish between: a) Liposomes and Niosomes b) GMP and cGMP c) SAR and QSAR d) Phase 1 and Phase 2 metabolism e) Immunogen and Antigen (5×2) IV. Describe the role of molecular modeling in drug discovery. (10)V. Discuss various factors contributing to immunogenicity to a biopharmaceutical. (10)VI. Write briefly about following with examples:a) Dose dependent kinetics b) Transdermals (10)VII. What factors should be considered in the design of a controlled drug delivery system?
- (10)