

Exam.Code:1033

Sub. Code: 7876

1059

M.E. (Bio-Technology) Second Semester
ME-BIO-205: Pharmaceutical Biotechnology

Time allowed: 3 Hours

Max. Marks: 50

NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting two questions from each Unit.

X-X-X

I. Write short notes on following:-

- a) Liposomes
- b) Physiological barriers to the distribution of drugs
- c) Plasma half life
- d) Drug development
- e) Computer aided drug design (CADD) (5x2)

UNIT – I

- II. a) What are the various mechanisms of drug absorption?
b) Discuss the applications of artificial enzymes. (6,4)
- III. Distinguish between:-
a) Liposomes and Niosomes
b) GMP and cGMP
c) SAR and QSAR
d) Phase 1 and Phase2 metabolism
e) Immunogen and Antigen (5x2)
- IV. Describe the role of molecular modeling in drug discovery. (10)

UNIT – II

- V. Discuss various factors influencing the immunogenicity to a biopharmaceutical. (10)
- VI. a) Define dose dependent kinetics. Give examples.
b) Discuss the criteria for a drug to be given via transdermal drug delivery route. (5,5)
- VII. What factors should be considered in the design of a controlled drug delivery system? (10)

X-X-X