

2054  
M. E. (Biotechnology) Second Semester  
Elective – II  
MEBIO-205 (b): Pharmaceutical Biotechnology

Time allowed: 3 Hours

Max. Marks: 50

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

x-x-x

I. Explain the following:-

- a) Name different components of quality management
- b) Statistical parameters used in QSAR
- c) Active drug targeting
- d) Principle of SBDD
- e) First order reactions

(5x2)

UNIT - I

II. Give a detailed account of Host and Product related factors contributing immunogenicity.

(10)

III. Comment on:-

- a) Transdermals as an advanced drug delivery system.
- b) Importance of Quality management

(2x5)

IV. Give an overview of:-

- a) Different designed approaches for artificial enzymes
- b) Importance of ADME prediction in drug development

(2x5)

UNIT - II

V. Discuss in details the rationale, steps involved and importance of pharmacophore modelling in drug designing

(5,5)

VI. Write short note on:-

- a) Vaccines as biopharmaceuticals
- b) Factors affecting rate of reaction

(2x5)

VII. a) Enlist ten principles of GMP. What are the GMP requirement for packing and labelling

b) Differentiate between ISO 9000 and TQM

(2x5)

x-x-x