

Question Paper

Exam Date & Time: 09-May-2018 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

MANIPAL COLLEGE OF PHARMACEUTICAL SCIENCES

END SEMESTER THEORY EXAMINATIONS- MAY 2018

PROGRAM: MPHARM SEMESTER 2 (PHARMACEUTICAL BIOTECHNOLOGY)

DATE: 09/05/2018

TIME: 2:00 PM - 5:00 PM

Biological Evaluation of Drug Therapy [PBT-MPB204T]

Marks: 50

Duration: 180 mins.

a

Answer all the questions.

Answer the following (5 marks x 8 = 40 marks)

- 1) What are pyrogens? Explain the physiological effects of pyrogens. (5)
- 2) Describe the protocol to construct standard curve in the assay of antibiotics by one level factorial method. (5)
- 3) Mention the characteristics of Screening. Explain the types of Screening (5)
- 4) Explain the basic approach of gene therapy and the importance of antisense approach in treatment of cancer (5)
- 5) Define 'similar biologic'. Explain the factors to be considered for selection of the reference biologic. (5)
- 6) Enumerate the studies for characterization of similar biologics and explain any one. (5)
- 7) Mention and explain the factors which affect drug absorption. (5)
- 8) Write a note on Pharmacokinetic models for biopharmaceuticals. (5)

b

Answer all the questions.

Answer the following with specific answers (2 marks x 5 = 10 marks)

- 9) Enlist any four properties of test organism used in microbiological assay of antibiotics. (2)
 - A) (2)
 - B) (2)

Mention any two autoimmune disorders and the biologic medicines for the same

- C) Mention the barriers for drug absorption. (2)
- D) Enumerate the competent authorities involved in the approval process for similar biologics (2)
- E) Write the principle behind the production of monoclonal antibodies by hybridoma technology. (2)

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