Question Paper

Exam Date & Time: 18-May-2023 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Manipal Academy of Higher Education, Manipal MPharm Theory End-Semester Examinations.

Biological Evaluation of Drug Therapy [PBT-MPB204T -S2]

Marks: 75 Duration: 180 mins.

SECTION - A

Answer all the questions.

Answer the following (10 marks x = 50 marks)

1)	Define the term 'biological standardization'. Discuss the indirect methods for carrying out Bioassays. (10))
2)	Explain the principle involved in microbiological assay of antibiotics. Describe the method used to perform the two-level factorial assay.))
3)	How are cleanrooms classified? With necessary diagrams, explain the operation and applications of (10 Type II B2 biosafety cabinet))
4)	When are two drug products shown to be bioequivalent? Discuss the factors influencing bioequivalence studies. (10))
5)	Write a detailed note on New Drug application (NDA) and guidance documents needed for submission of NDA.))

SECTION - B

Answer all the questions.

Answer the following (5 marks x = 25 marks)

6)	Describe the Kendrick test used for determination of vaccine potency.	(5)
7)	Describe the principle involved in LAL test.	(5)
8)	Write the source, mechanism of action and therapeutic application of insulin	(5)
9)	Write a note on advantages and application of non-compartment models.	(5)
10)	Explain the composition, role and function of Central Drugs Standard Control Organization.	(5)

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