

Question Paper

Exam Date & Time: 04-May-2019 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

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

MPharm - Pharmacology

MPharm Semester II - End-Semester Examination May 2019

Date : 04/05/2019

Pharmacological and Toxicological Screening Methods II [PHA-MPL202T]

Marks: 75

Duration: 180 mins.

SECTION - A

Answer all the questions.

Answer the following (10 marks x 5 = 50 marks)

- 1) Discuss the different types of audits that are conducted for regulatory toxicity study. (10)
- 2) Draw a neat flow chart describing the procedural activities involved in acute dermal toxicity studies as per OECD guidelines. (10)
- 3) Why do we prefer conscious monkeys for the respiratory drug screening? Discuss role of end-tidal CO₂ measurement and functional lung dynamics in respiratory screening (10)
- 4) Write a detailed note on animal reuse, dose selection and species selection for cardiovascular drug screening as per ICH7A guidelines. (10)
- 5) What is chromosomal aberration test? Explain it with advantages and disadvantages. (10)

SECTION - B

Answer all the questions.

Answer the following (5 marks x 5 = 25 marks)

- 6) Explain different screening methods for locomotor activity and motor coordination activity (5)
- 7) Explain the principle and procedure for In-vitro mouse lymphoma TK +/- assay (5)
- 8) Distinguish between fetotoxicity, teratogenicity and maternal toxicity in preclinical studies (5)
- 9) Describe the daily, weekly and terminal observations performed in chronic toxicity studies (5)
- 10) A series of new molecules were evaluated for anti-diabetic activity by a pharmacological team. Now the desired molecules are to be taken up for the regulatory toxicity. The Head of the Research wing invited you to audit the pharmacological data generated and set criteria for selecting the compounds to be considered for safety (5)

(PTA)