Roll No……..….. **Total No. of Printed Pages: 1**

Total No. of Questions: [13]

M. Pharmacy (Pharmacology) (Semester –2nd)
PHARMACOLOGICAL AND TOXICOLOGICAL SCREENING METHODS-II
Subject Code: MPL202T
Paper ID: [17250306]

Time: 03 Hours **Maximum Marks: 75**

Instruction for candidates:

1. Section A is compulsory. It carries 20 marks. It consists of 5 questions of 4 marks each.
2. Section B consist of 9 questions of 5 marks each. The student has to attempt any 7 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A **(4 marks each)**

Q1. Attempt the following:
   a. Give the OECD principles of Good Laboratory Practices.
   b. Write a note on teratogenicity studies.
   c. OECD, ICH, and EPA stand for……...
   d. Give the list of studies needed for IND submission.
   e. Describe the terms toxicokinetics and saturation kinetics.

Section – B **(5 marks each)**

Q2. Give the origin, concepts, and importance of safety pharmacology studies
Q3. Define the term toxicology. Explain the various types of toxicology.
Q4. Enumerate the alternative methods to animal toxicity studies.
Q5. Give the acute, sub-acute, and chronic oral toxicity studies as per OECD guidelines.
Q6. Write a note on In-vivo carcinogenicity studies.
Q7. Explain the acute eye irritation and skin sensitization toxicity studies.
Q8. Give the importance and industry perspective of IND.
Q9. Write a note on genotoxicity studies.
Q10. Give the importance and applications of toxicokinetic studies.

Section – C **(10 marks each)**

Q11. Write a detailed note on reproductive toxicity studies.
Q12. Explain toxicokinetic evaluation in preclinical studies.
Q13. Give the regulatory guidelines for conducting toxicity studies.