

Roll No _____

END-TERM EXAMINATION
Odd Semester 2024-25

Course Code: MPL103T
Screening Methods-I

Course Name: Pharmacological and Toxicological



Programme Name: M. Pharm

Sem: Ist

Time: 3 Hours

Maximum Marks: 75

Instructions: The question paper consists of 07 questions out of which any Five has to be attempted.

Section A (15 x 5 = 75 Marks)

1	Discuss the role of common laboratory animals in preclinical research, including their description, handling, and applications. Highlight different species and strains typically used in drug screening.	CO-1	L-2
2	Discuss the principles behind quantitative drug concentration measurements in biological samples and explain their importance in drug discovery.	CO-2	L-3
3	Discuss the principle, scope, limitations, and methods of bioassays in preclinical screening of new pharmacological substances. How do bioassays contribute to drug development?	CO-2	L-3
4	Discuss the principles of immunoassays and their application in preclinical pharmacological research.	CO-3	L-4
5	What are the advantages and limitations of heterogeneous and homogeneous immunoassay systems in drug development?	CO-3	L-4
6	Explain the pharmacological screening of cardiovascular drugs like antihypertensives, antiarrhythmics, antianginals, and diuretics using animal models. How are these drugs tested for efficacy and safety?	CO-2	L-3
7	Discuss the role of alternative animal models and in vitro systems in overcoming limitations of animal experimentation in preclinical studies.	CO-4	L-5