## BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (END SEMESTER EXAMINATION)

CLASS: M.PHARM. SEMESTER: I   BRANCH: PHARMACOLOGY SESSION: M02022   SUBJECT: MPL103T PHARMACOLOGICAL AND TOXICOLOGICAL SCREENING METHODS I   TIME: 3.00 Hours FULL MARK: 75   INSTRUCTIONS: 1. Answer any five out of the seven questions   2. The missing data, if any, may be assumed suitably 3.   3. Before attempting the question paper, be sure that you have got the correct question paper.   4. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.			
1a.	Differentiate between Pyrexia and algesia. Elaborate on a method use effect in animals	ed to screen antipyretic	[7]
1b.	Name some convulsants and anticonvulsants. Design an experiment to anticonvulsant activity	screen a compound for	[8]
2a.	What are diabetogens. Name four diabetogens used for animal experimentation between MOA of two prototype diabetogens used for screening purposes		[7]
2b.			[8]
3a. 3b.	Design a simple method to evaluate surface anaesthesia Differentiate between the Chick comb method and the capon comb m Capon comb method used for screening androgenic activity.	nethod Elaborate on the	[7] [8]
4a. 4b.	What are Phlogistic agents. How will you screen a compound for acute in What is Ulcer Index? Give the formula used to calculate ulcer index. D screen a compound for stress induced ulceration		[7] [8]
5a. 5b.	Explain the limitations of animal experimentations in pre-clinical researce Discuss the principles of bioassay. Briefly explain different methods of bio		[7] [8]
6a. 6b.	Discuss application of transgenic animals in modern world. Briefly explain the method of transportation of laboratory animals.		[7] [8]
7a. 7b.	Write note on breeding of laboratory animals. Describe the radioimmunoassay for the determination of insulin.		[7] [8]

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