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

CLASS: M.Pharm BRANCH: PHARMACY SUBJECT: Pharmacological and Toxicological Screening Methods-II (MPI 202	SEMESTER: II SESSION:SP-2022
TIME: 3.00 Hours	FULL MARK: 75
INSTRUCTIONS: 1. The missing data, if any, may be assumed suitably. 2. Before attempting the question paper, be sure that you have got the correct question paper. 3. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.	
1a. Describe major specialized areas of toxicology1b. Discuss alternatives to animal toxicity testing with the example of bovine coopacity and permeability test.	[7] orneal [8]
2a. Explain the structure and roles of ICH2b. Write a short note on the method of fixed-dose oral toxicity study of a new or entity.	[7] chemical [8]
3a. Describe screening tests in animals for reproductive toxicity of Segment-1	fertility [7]
& General reproductive performance segment and Segment-2 (Teratogenesis so 3b. write detail about Genotoxicity & Carcinogenicity study	egment). [8]
4a. Explain types & Categories of IND and write required information needed	for IND [7]
applications 4b. Write detail information of Nonclinical & Clinical Components required in application for Clinical Investigation and safety & Annual reports in IND Appli Reporting	IND [8] cation
5a. Illustrate lead optimization in the drug discovery process5b. Explain the procedure of the skin sensitization test following guinea pig max test.	[7] imization [8]
6a. Write Importance of safety pharmacology & write general consideration in s & design of safety pharmacology studies	selection [7]
6b. Explain detail about Tier-1 & Tier-2 safety pharmacology	[8]
7a. Write objective, General Principle and the parameters to be measured in Toxicokinetic	[7]
7b. List down different reconstituted human epidermis models used in <i>in vitro</i> r Demonstrate the experimental method for the most sensitive reconstituted huma epidermis model	esearch. [8] an

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