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

CLASS: BRANCH	M. PHARM I: PHARMACY	SEMESTER : I SESSION : MO/1	9
SUBJECT: MPL103T PHARMACOLOGICAL AND TOXICOLOGICAL SCREENING METHODS I TIME: 3:00 HOURS FULL MARKS: 75			
 INSTRUCTIONS: 1. The question paper contains 7 questions each of 15 marks and total 105 marks. 2. Candidates may attempt any 5 questions maximum of 75 marks. 3. The missing data, if any, may be assumed suitably. 4. Before attempting the question paper, be sure that you have got the correct question paper. 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall. 			
Q.1(a)	Explain Pharmacological screening and it's types? Highlight the significance of preclinical screening?	Irwin's test in	[7]
Q.1(b)	Define bioassay. What is the role of bioassay in screening? Illustrate the criteria for a assay.	good biological	[8]
Q.2(a)	Illustrate one method for the evaluation of the following class of drugs (any three) (i) Antiulcer drugs (ii) analgesic agents (iii)antidiarrhoeal agents (iv) antiemetic	:	[9]
Q.2(b)	Enumerate the methods used for the screening of anti-inflammatory activity. Illustr of a phlogistic agent using a suitable screening model.	ate the efficacy	[6]
Q.3(a)	Enumerate the methods used for the screening of tussigens. Design one experimen	t to evaluate	[7]
Q.3(b)	Define anaesthesia. Enlist the methods of local anaesthetic activity. Evaluat anaesthetic using a suitable method of nerve block anaesthesia.	e a new local	[8]
Q.4(a)	Name four experimental diabetogens. Design two suitable experiments using bot surgical procedures for the screening of antidiabetic activity.	h chemical and	[1+3+3]
Q.4(b)	Design one experimental preclinical model each for the assessment of (a) he (b) muscle coordination.	epatoprotective	[4+4]
Q.5(a)	Describe different invitro and Invivo steps for approaching new drug discover screening.	y in preclinical	[7]
Q.5(b)	Describe different alternative methods for animal experiment in basic research. A animal experiment guidelines?	What are 3Rs in	[8]
Q.6(a) Q.6(b)	What is immunoassay? Write about the principle, types, categories and application Explain competitive and non competitive immunoassays with suitable diagrams.	of immunoassay	[7] [8]

Q.7(a)Describe the detailed procedure for production of polyclonal antibodies.[7]Q.7(b)Explain the procedure for production of monoclonal antibodies.[8]

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