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		GUJARAT TECHNOLOGICAL UNIVERSITY M. Ph SEMESTER - I - EXAMINATION - SUMMER-2018		
Subject Code: MPL103TDate: 07/0Subject Name: Pharmacological and Toxicological Screening MethodsTime: 02:30PM TO 05:30PMTotal Mar				
2.	Att Ma	is: empt any five questions. ke suitable assumptions wherever necessary. ures to the right indicate full marks.		
Q.1		Discuss in brief the use of Transgenic animals in Research. Outline the different methods of Bioassay. Describe in brief the principles of bioassay of Insulin.	06 05	
Q.2		What is Euthanasia? Discuss CPCSEA approved methods of euthanasia. List out the screening models used for evaluation of Drugs used in Type II Diabetes mellitus.	05 06	
Q.3	(c)	Explain the models used for induction of Hyperthyroidism. Discuss in brief the models used for induction of Hyperlipidemia. What are the different models for evaluation of Local Anesthetics. Explain	05 05 06	
		screening by Dermal Anesthesia. Discuss the pharmacological evaluation of Neuromuscular blockers. Outline the models used for screening of antidepressants. Write in brief about Porsolt test.	05 05	
Q.4		Enumerate models used for screening of Antiasthmatics. Discuss any one method for evaluation of Bronchodilators.	06	
		Enlist the models used for the screening of Antihistaminics. Discuss anyone in brief. How will you evaluate laxatives?	05 05	
Q.5	(a) (b)	Discuss the general principles of Immunoassay. Describe the bioassay of Digoxin using Immunoassay methods. Write a note on the LIPSCHITZ test.	03 06 05 05	
Q. 6	• •	Explain the use of following in Preclinical screening: (any three) 1. Freund's adjuvant 2. Compound 48/80 3. CCl ₄ 4. Croton oil	06	
	(b)	Enlist the models used for Antiparkinson activity. Discuss the mechanism and suitability of Rotenone induced model.	05	
Q.7		Classify methods for evaluation of Antialzheimer agents. Discuss the parameters used for assessment of Alzheimer's disease in preclinical models. Explain the use of following in Preclinical screening: (any three)	05 06	
	(b) (c)	1. Cooke's pole 2. Morris water maze 3. Patch clamp 4. Plethysmometer Enumerate models used for hypertension. Describe any one in detail. Discuss use of Aspirin plus PL model in evaluation of Antiulcer drugs.	05 05	
