Seat No.:	Enrolment No.

Subject Code: 2920103

GUJARAT TECHNOLOGICAL UNIVERSITY

M. Pharm. - SEMESTER - II • EXAMINATION - SUMMER • 2015

Date: 14-05-2015

_	: 10	Name: Pharmacometrics & Methods of Biological Evaluation of Dr 0:30 am - 01:30 pm Total Marks: 80 ons:	ugs
	2.	Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b) (c)	Discuss the principle and use of the following: i. Analgesiometer ii. Cook's Pole Climbing apparatus Enlist various methods for producing cataract in animals & explain any one. Describe any one model for evaluation of anti-psychotic drugs.	06 05 05
Q.2	(a) (b) (c)	Discuss various models for evaluation of anti-epileptic agents. Mention various models for evaluation of skeletal muscle relaxants. Describe any one in detail. Write a short note on principles of bioassay.	06 05 05
Q.3	(a) (b) (c)	Describe in-vivo models for screening of anti-asthmatic agents. Write a short note on pyrogen testing. Describe any one model for screening of drugs useful for IBD.	06 05 05
Q.4	(a) (b) (c)	Enlist various models used for screening of anti-hypertensive agents. Describe screening of anti-hypertensives using genetically modified animals. Write a short note on bioassay of antibiotics Discuss – "Assessing safety of packaging material using animals".	06 05 05
Q.5	(a) (b) (c)	Describe: i. Diet induced hyperlipidemia model ii. Coronary ligation method for coronary vasodilators Explain any one method for evaluation of parasympatholytic drug. Enumerate various models for evaluation of thyroid analogues and discuss any one in detail.	06 05 05
Q. 6	(a)	Describe: i. Granuloma pouch method ii. Freund's adjuvant method Enlist various models for arrhythmia. Describe any one in detail.	06
Q.7	(b) (c) (a) (b) (c)	Define LD ₅₀ and ED ₅₀ and explain their determination. Differentiate between models for type – 1 and type – 2 diabetes. Describe any one model for screening of diuretic agent. Write a short note on bioassay of oxytocin as per Indian Pharmacopoeia 2007.	05 05 06 05 05
