Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY M.PHARM - SEMESTER-3 EXAMINATION - SUMMER-2019

Subject Code: 930001 Date: 27/05/2019

Subject Name: Experimental Design And Patents

Time: 02:30 PM TO 05:30 PM Total Marks: 80

Instructions:

1. Attempt any five questions.

- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a)	Write advantages of experimental design. Differentiate between full and fractional factorial designs.	06
	(b)	Differentiate one way ANOVA and two way ANOVA.	05
	(c)	Write a note on Pharmacoinformatics.	05
Q.2	(a)	Explain following terms with examples. i) Factors ii) Levels iii) Effects iv) Interaction	06
	(b)	Write short note on 'Response surface method''.	05
	(c)	Describe Plackett- Burman experimental design with its` applications.	05
Q.3	(a)	Discuss the various features and applications of central composite designs.	06
	(b)	Discuss design model for 2^2 factorial design.	05
	(c)	Explain the important applications of experimental designs in clinical trials.	05
Q.4	(a)	Describe the essential elements of patents draft.	06
	(b)	Write Advantages of TRIPS Provisions of the GATT Agreement.	05
	(c)	Write a short note on contour plot.	05
Q.5	(a)	Write a short note on "Laboratory Notebook".	06
	(b)	Write salient features of the patent Rules 2003.	05
	(c)	Write the advantages of filing a provisional specification for patent filing.	05
Q. 6	(a)	What are the different types of patents, which can be secured under the Indian Patents Act?	06
	(b)	Discuss non- patentable inventions with examples.	05
	(c)	Discuss importance of patent search. Which are different websites for that?	05
Q.7	(a)	Define Trademark. Which different types of trademark can be registered as per Indian trademark law.	06
	(b)	Write a note on copy write protection.	05
	(c)	Explain 'Revocation of patent' in detail as per The Patent act, 1970.	05
