Seat No.:	Enrolment No.
Jean 110	Lindinent 10.

## GUJARAT TECHNOLOGICAL UNIVERSITY

M.PHARM - SEMESTER-1 EXAMINATION - SUMMER-2019

Subject Code: MPC104T	Date: 04/06/2019
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**Subject Name: Chemistry of Natural Products** 

Time: 02:30 PM TO 05:30 PM	Total Marks: 80
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## **Instructions:**

- 1. Attempt any five questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a)	What is Natural products as lead and write the methods for the selection of lead ?.	06
	(b)	Write a note about Lovastatin Write brief note on Teniposide –as an anticancer drug.	05 05
Q.2	(a) (b) (c)	Describe the stereochemistry of steroids. Write chemistry of male contraceptive agents. Write sturcture elucidation of ephedrine.	06 05 05
Q.3	(a) (b) (c)	Write briefly the classification and isoprene rule of terpenoids. Give strcture elucidation of squalene Write brief note on Taxol	06 05 05
Q.4	(a) (b)	Give general methods for determining Hydroxyl group Give general methods for determining nature of Nitrogen in alkaloids	06 05
	(c)	Discuss chemistry of any one of macrolid antibiotics.	05
Q.5	(a)	Write note on application of 1 H NMR and 13 C NMR in structural characterization	06
	(c)	Write structure elucidation of Quercetin.  Discuss active constituents of <i>Gymnema sylvestres</i> -as an antidiabetic agent.	05 05
Q. 6	(a) (b) (c)	Write infomative notes on Morphine and it's analogues Write chemistry and physiological significance of folic acid Discuss active constituents of <i>Curcuma longa-</i> as an antitumor	06 05 05
Q.7	(a)	Describe Oligonucleotide therapy.	06
	(b)	Write in brief recent advances in Gene therapy	05
	(c)	Write note on rDNA technology	05