Seat No.: \_\_\_\_\_ Enrolment No.\_\_\_\_

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

B. Pharm. - SEMESTER - V • EXAMINATION - WINTER • 2014

Subject Code: 250006 Da	ate: 08-12-2014
-------------------------	-----------------

**Subject Name: Pharmacognosy - IV** 

Time: 10:30 am - 01:30 pm Total Marks: 80

**Instructions:** 

(c)

Write a note on Indian Tobacco.

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

Q.1	(a)	Give the biogenesis of any one phenathrene alkaloid synthesized from tyrosine.	06
	(b)	Describe biosynthetic pathway for phenylalanine.	05
	(c)	Define alkaloids and describe their properties.	05
Q.2	(a)	Describe in detail the saprophytic production of an ergot with its merits and demerits.	06
	(b)	Give morphological and microscopical characters of Hemlock fruit.	05
	(c)	Describe the processing of different categories of tea.	05
Q.3	(a)	Give the morphological difference between four species of Cinchona and differentiate the stem bark and root bark.	06
	(b)	Give chemical constituents, pharmacological actions and uses of an antihypertensive drug.	05
	(c)	Write chemical constituents and uses of tropane alkaloid containing drug with steroidal lactone.	05
(	(a)	Differntiate the followings: i. Chhota chand & Bada Chand	06
		ii.Strychnos nuxvomica & Strychnos potatorum	
	(b)	Describe the pharmacognosy of cancer Tree.	05
	(c)	Write a note on "Substituent of Ipecacuanha"	05
(b	(a)	Comment on followings:	06
		i. Aconine is more toxic than aconitine.	
		ii. Jaborandi leaves should be used within 2 years.	
		iii. Colchicine is basic in nature.	
	(b)	Describe in detail pharmacognosy of quinazoline containing drug with well	05
	( )	labeled diagrams.	0.5
	(c)	Write in detail on drug used in amoebic dysentry.	05
Q. 6	(a)	Compare the morphological characters of various varieties of Datura leaf.	06
<b>Q</b> . 0	(b)	Write Biological source, family, chemical composition and toxicity of sag-angur	05
	. ,	patti.	
	(c)	Explain the concept of stereochemistry with suitable examples of natural products.	05
Q. 7	(a)	Write a brief note on tracer technique.	06
	(b)	Differentiate the Egyptian Henbane and Indian Henbane with respect to morphological and microscopical characters.	05

\*\*\*\*\*\*

**05**