Seat No.:	Enrolment No.
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## GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM SEMESTER-VI EXAMINATION – SUMMER-2017

Subject Code: 2260006 Date: 10/05/2017

**Subject Name: Pharmacognosy IV** 

Time: 10:30 AM to 01:30 PM Total Marks: 80

## **Instructions:**

1.	Attempt	anv	five	questions.
	LICULIA	ully	1110	questions.

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

Q.1	(a)	Define and classify alkaloids. Classify alkaloids according to heterocyclic ring present in their structures giving examples in each class.	06			
	(b) (c)	Write the general chemical test and flow chart for isolation of alkaloids.  Explain the life cycle of ergot with diagram.	05 05			
Q.2	(a) (b) (c)	Enlist the tropane alkaloid containing drugs and describe Datura in detail. Write the biological source, chemical constituents and uses of kurchi bark. Explain anticancer drug containing indole alkaloid.				
Q.3	(a) (b) (c)	Describe pharmacognosy of drug used as Antimalarial. Enlist the pyridine-piperidine alkaloid containing drugs and explain any one. Draw and explain the histology of nux vomica seed.				
Q.4	(a) (b) (c)	Write a note on morphology, cultivation, collection and preparation of Opium.  Describe the alkaloidal drug used as antihypertensive.  Describe the pharmacognosy of vasaka leaf				
Q.5	(a) (b) (c)	Write a note on drug known as Ashwagandha in detail. Explain pharmacognosy of ipecac in detail. Differentiate between two species of alkaloidal amine containing drug used as bronchodilator.				
Q. 6	(a)	Write the specific chemical tests for followings: I.Ergotamine ii. Strychnine & Brucine iii. Caffeine iv. Tropane alkaloids v. Cinchona alkaloids	06			
	(b) (c)	Write a detailed note on pepsin and Vegetable pepsin. What is a pharmaceutical aid? Write a note on natural colours.	05 05			
Q.7	(a) (b)	What is marine pharmacognosy? Explain marine anticancer drugs. Write source, family, chemical constituents, uses and morphology of drug containing Diterpene alkaloid.	06 05			
	<b>(c)</b>	Define enzymes. Write a note on Streptokinase and Urokinase.	05			

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