Seat No.: _____ Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Pharm. SEMESTER VI • EXAMINATION – SUMMER-2016

Subject Code:2260006 **Date: 11/05/2016**
Subject Name: Pharmacognosy-IV
Time: 10:30 AM to 1:30 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)**	Define and classify Alkaloids. Explain the chemical classification of alkaloids with suitable examples.	**06**
	(b)	Write the general chemical testes and isolation procedure of alkaloids.	**05**
	(c)	Write a note on any drug containing pyridine-piperidine alkaloid.	**05**
Q.2	**(a)**	Enlist the Tropane alkaloid containing drugs and describe Datura in detail.	**06**
	(b)	Write a note on Ergot and explain the life cycle.	**05**
	(c)	Explain the Biological Source, chemical constituents and uses of Kurchi Bark.	**05**
Q.3	**(a)**	Describe pharmacognosy of drug used as Antimalarial.	**06**
	(b)	Draw and explain the histology of Nux-vomica seed.	**05**
	(c)	Describe Tylophora.	**05**
Q.4	**(a)**	Write a detailed note on Opium with their cultivation, collection and preparation.	**06**
	(b)	Describe the alkaloidal drug used as antihypertensive.	**05**
	(c)	Explain pharmacognosy of Vasaka leaf.	**05**
Q.5	**(a)**	Explain the drug known as Ashwagandha in detail.	**06**
	(b)	Write the specific chemical tests for followings. I.Ergotamine ii. Strychnine & Brucine iii. Emetine iv. Tropane alkaloids v. Ephedrine	**05**
	(c)	Write a detailed note on Streptokinase and Urokinase.	**05**
Q. 6	**(a)**	Write a note on anticancer drug containing indole alkaloid.	**06**
	(b)	Write the differences between i. Rio Ipecac and Cartegena Ipecac ii. Bolivian Cocca and Peruvian Cocca	**05**
	(c)	Define Enzymes. Write a note on pepsin and vegetable pepsin.	**05**
Q.7	**(a)**	What is Marine Pharmacognosy? Explain marine anticancer agents.	**06**
	(b)	Write Biological source, family, chemical constituents, uses and morphology of Aconite.	**05**
	(c)	Define and classify fibers. Write a note on Cotton.	**05**

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