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

Enrolment No.\_\_\_\_

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

B. Pharm. - SEMESTER - V • EXAMINATION - WINTER • 2016

	<b>o</b>			Date: 03-12-20	2016	
	•		Name: Pharmacognosy - IV			
	Time: 10:30 am - 01:30 pm Total				80	
	Instru					
			Attempt any five questions.			
			Make suitable assumptions wherever neces	sary.		
		3.	Figures to the right indicate full marks.			
Q.1	(a)		Describe the general procedure of isolation of all	kaloids.	06	
	(b)		Describe biosynthesis and uses of Atropine.		05	
	(c)	P	Prepare a brief note on drug used in glaucoma.		05	
Q.2	(a)		Give biological sources, chemical constituents as lrugs containing liquid alkaloid.	nd uses of any two	06	
	(b)	V	Vrite on properties and uses of opium alkaloids.		05	
	(c)	D	Draw well labeled diagram showing morphologi	cal and	05	
		n	nicroscopical characters of Quinazoline alkaloid	d containing drug.		
Q.3	(a)		Differentiate the following pairs of drugs:		06	
			Indian Henbane & Egyptian Henbane			
			i. Ephedra sinica & Ephedra equisetina			
			ii.Rauwolfia serpentina & Rauwolfia canascens			
	(b)		Vrite a note on radiotracer techniques.		05	
	(c)	D	Discuss in brief on substituents of Ipecacuanha.		05	
Q.4	(a)	fo	Draw chemical structure and give specific chemollowings (ANY THREE)		06	
	<i>a</i> >		Quinine ii. Atropine iii. Reserpine iv. Stry	ychnine	0.=	
	(b)		Give the biosynthetic pathway for tryptophan.	C A 1 11	05	
	(c)	V	Vrite chemical constituents with structure and u	ses of Ashgandh.	05	
Q.5	(a)		Comment on following statements:		06	
			i. Fresh Cola seeds are preferred over dried seed	ds.		
		i	ii. In murexide test caffeine gives red color.			
		i	iii. The inner bark of cinchona turns red to yello	OW.		
	(b)	V	Vrite a pharmacognostic note on drug used in ar	moebic dysentery.	05	
	(c)	G	Give chemical constituents and uses of Duboisia	and colchicum.	05	
Q. 6	(a)		Discuss the saprophytic cultivation of ergot with of the method.	merits and demerits	06	
	(b)	V	Vrite a note on importance of biosynthetic pathy	ways study of plants.	05	
	(c)		Vrite short note on	7 7 1	05	
		i	i. Toxicity of belladonna & Aconite ii. Veratru	ım alkaloids		
Q.7	(a)	D	Describe cultivation, collection and uses of cincle	hona bark.	06	
	(b)	D	Discuss in brief on stereoisomerism of alkaloids	giving suitable	05	
	` /		xamples.			
	(c)		Enlist different types of tea. How they are preparent types of tea.	red?	05	