Coot No.	Empleo ant No
Seat No.:	Enrolment No.

Subject Code: 240006

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

B. Pharm. – SEMESTER – IV • EXAMINATION – WINTER • 2014

Date: 05-01-2015

Ti	-	Name: Pharmacognosy-III 2:30 pm - 05:30 pm Total Marks: 80 ons:	
	2.	Attempt any five questions.  Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.	
Q.1	(a)	Define Saponin and give the classification and explain Transverse section of <i>Glycerrhiza glabra</i> .	06
	(b)	Give the methods of preparation and chemical tests of different types of Aloe.	05
	(c)	Write short note on Ginseng.	05
Q.2	(a)	Give the difference between cardenolide & bufadienolide; Give the B.source, family, chemical constituent and uses of any one bufadienolide containing drugs.	06
	(b)	Define Glycoside; give its property and classification. Give the difference between Indian senna & Alexandrian senna.	05
	(c)	Write short note on Furanocoumarin glycoside.	05
Q.3	(a)	Give the structure and chemical test for following chemical constituents.  1. Sennoside B 2. Diosgenin 3. Digitoxose	06
	(b)	Give the B.source, chemical constituents and uses of Senega and Explain transverse section of Senega with proper label.	05
	(c)	Discuss the Pharmacogonsy of any one seed drug which is used as laxative.	05
Q.4	(a)	<ol> <li>Comment on following.</li> <li>Glycyrrhiza is banned in USA in confectionary as sweetening agent.</li> <li>Cascara bark is stored for one year before use.</li> <li>Digitalis should be dried as soon as collected.</li> </ol>	06
	(b)	Write short notes on bitter tonic drugs.	05
	(c)	Give the different species of Rhubarb with geographical sources and give the Chemical constituents and identification tests for rhubarb.	05
Q.5	(a)	Define and classify flavonoids and discuss complete Pharmacogonsy of Rutagraveolens.	06
	(b) (c)	Give the difference between <i>Ammi majus</i> and <i>Ammi visnag</i> . Give the morphological characteristics, adulterant and substitute of Strophanthus.	05 05
Q. 6	(a)	Give the difference between <i>Digitalis lanata</i> and <i>Digitalis purpurea</i> and explain hydrolysis of its glycoside.	06
	(b)	Define enzyme and give the B.Source & method of prepration of enzyme Diastase.	05
	(c)	Discuss the complete pharmacognosy of any one anthelmintic drug.	05

- Q.7 (a) Give the B.Source, method of prepration and pharmaceutical uses of 06 enzyme Papain.
  - (b) Give the difference between Black mustard and White mustard. 05
  - (c) Give the different sources, phytoconstituents and pharmacological uses of **05** Sarsaparilla.

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