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Seat No.: Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

B.PHARM - SEMESTER- 5 EXAMINATION - SUMMER -2020

Subject Code: 2250006	Date:02-11-2020
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**Subject Name: Pharmacognosy-III** 

Time: 2:30 PM TO 5:30 PM **Total Marks: 80** 

## **Instructions:**

1	. <i>F</i>	\t1	tempt	any	five	questions	•
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2. Make suitable assumptions wherever necessary.

3.	Figu	res to the right indicate full marks.					
Q.1	(a)	Define Glycoside. Discuss its classification and physico chemical properties in details.					
	<b>(b)</b>	Write down Reduced derivatives of Anthraquinone glycoside. Discuss mechanism of action of it.	05				
	<b>(c)</b>	Write down detail Pharmacognosy of Senna.	05				
Q.2	(a)	Define saponins. Differentiate steroidal saponin and triterpenoidal saponin with examples.	06				
	<b>(b)</b>	Give biological source, chemical constituents, uses of Galactogogue drug.	05				
	<b>(c)</b>	Write down biological source, chemical constituents, uses of Liquorice.	05				
Q.3	(a)	Describe following chemical tests :  1.Keller killiani test	06				
		2.Grignard test					
		2.Grignard test 3.Modified borntrager test					
	<b>(b)</b>	Comment on following:	05				
	` ′	1. Cascara bark is to be stored for one year before use.					
		2. Digitalis should be dried immediately after collection.					
	<b>(c)</b>	Draw and explain detailed transverse section of Linseed.	05				
Q.4	(a)	Differentiate following:	06				
	` ′	1. Indian Rhubarb and Chinese Rhubarb					
		2. Kalmegh and chirata					
		3. Cardenolide and Bufadienolide					

- **(b)** Write down phamacognosy of foxglove leaves
- Give biological source, chemical constituent, uses of isothiocyanate glycoside (c) 05 containing drug.
- Define plant tissue culture. Discuss application of it in details. Q.5 (a) 06 Explain suspension culture in details. **(b)** 05 Write a note on Plant cell Immobilization. (c) 05
- Q. 6 Write a short note on Protoplast culture and Hairy root culture. 06 (a) **(b)** Explain Elicitation in details. 05
  - Write a note on Cryopreservation. 05 (c)
- **Q.7** Give biological source, chemical constituent, uses of Dioscorea and Quassia. 06 (a) Write down phamacognosy of Aloe. **(b)** 05
  - Write detail phamacognosy of memory enhancer drug.