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

Enrolment No. \_\_\_\_\_

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

B. Pharm - SEMESTER- V. EXAMINATION - WINTER -2019

Subject Code: BP503TPDate: 20/11/2019Subject Name: Pharmacognosy and Phytochemistry II			
Time	: 02:3	30PM TO 05:30PMTotal Marks: 80	
<ol> <li>Instructions:</li> <li>1. Attempt any five questions.</li> <li>2. Make suitable assumptions wherever necessary.</li> <li>3. Figures to the right indicate full marks.</li> </ol>			
Q.1	(a) (b) (c)	Explain Shikimic acid pathway with chemistry. Write in detail about acetate mevalonate pathway. Discuss in detail about pathway for biosynthesis of lipids in plants.	06 05 05
Q.2	(a) (b) (c)	Define Alkaloids. Write down its classification with example. Write down source, chemical constituents and uses of Rauwolfia and Opium. Write down source, chemical constituents and uses of Colophony and Ginger.	06 05 05
Q.3	(a) (b) (c)	Define Tannins and Glycosides. Write down chemical constituents and uses of Asafoetida and Taxus. Differentiate between Fennel and Coriander. Give method for isolation and estimation of Caffeine.	06 05 05
Q.4	(a) (b) (c)	Write the biological source, isolation and estimation method of Podophyllotoxin. Write method for isolation of atropine and Curcumin. Describe a suitable method for production and estimation of Diosgenin.	06 05 05
Q.5	(a) (b) (c)	Write down pharmacognosy of drug used as a dental analgesic. Write down isolation, identification and analysis of Menthol. Give the source, isolation and identification method of Glycyrrhetinic acid.	06 05 05
Q. 6	(a) (b) (c)	Write a note on production and estimation of Sennosides. Differentiate between Pale catechu and Black catechu. Write down different methods of tracer techniques in the investigation of Biogenetic studies.	06 05 05
Q.7	(a) (b)	Define extraction. Enlist different modern methods of extraction. Explain in detail Microwave assisted extraction. Give significance of HPTLC and GC in isolation, purification and identification	06 05
	(b) (c)	of crude drugs. Write a note on super critical fluid (SCF) extraction.	05

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