Seat No.:	Enrolment No
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GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM – SEMESTER – 5 EXAMINATION – SUMMER-2025

Subject Code: BP503TP Date: 14-05-2025

Subject Name: Pharmacognosy and Phytochemistry II

Time: 02.30 PM TO 05.30 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) (b) (c)	Describe about Shikimic acid pathway. Write in detailed about sources, isolation and identification of Curcumin. Write a note on super critical fluid (SCF) extraction.	06 05 05
Q.2	(a) (b) (c)	Brief note on production, estimation and utilization of the Sennoside Write down isolation, identification and analysis of Menthol Write general introduction of benzoin and myrrh.	06 05 05
Q.3	(a) (b) (c)	Write a note on acetate mevalonate acid pathway. Write about production, estimation and utilization of the podophyllotoxin Differentiate Black Catechu and Pale Catechu.	06 05 05
Q.4	(a) (b) (c)	Give method for isolation and estimation of caffein. Define Resins. Write a short note on Ginger. Draw a well labeled morphology and microscopical diagram (T.S) of fennel	06 05 05
Q.5	(a) (b) (c)	Enlist different modern methods of extraction. Explain any one method in detail. What are different sources of Aloe? Explain their method of preparation. Write B.S., family. Chemical constituents, uses and marketed formulation of Gentian.	06 05 05
Q. 6	(a)(b)(c)	Write the utilization of radioactive isotopes in the investigation of biogenetic studies. Write application of modern chromatographic techniques in isolation and identification of phytoconstituents. Give the source, isolation and identification method of glycyrrhetinic acid.	06 05 05
Q.7	(a) (b) (c)	Give significance of HPTLC and GC in isolation, purification and identification of crude drugs. Define Alkaloids. Write down its classification with example. Write industrial production method and estimation method of forskolin.	06 05 05
