

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Pharm - SEMESTER-5 • EXAMINATION – SUMMER -2020**Subject Code: BP503TP****Date: 28-10-2020****Subject Name: Pharmacognosy and Phytochemistry II****Time: 2:30 PM TO 5:30 PM****Total Marks: 80****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

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| Q.1 | (a) | Write a short note on Radioactive isotopes in the investigation of Biogenetic studies. | 06 |
| | (b) | Describe about Shikimic acid pathway. | 05 |
| | (c) | Write a note on Acetate mevalonate pathway. | 05 |
| Q.2 | (a) | Give detail note on pharmacognosy on Senna. | 06 |
| | (b) | What are different sources of Aloe? Explain their method of preparation. | 05 |
| | (c) | Draw a well labeled morphology and microscopical diagram (T.S) of Fennel. | 05 |
| Q.3 | (a) | Differentiate between Black catechu and Pale catechu. | 06 |
| | (b) | Give detail note on anti-cancer drug. | 05 |
| | (c) | Write biological source, family, chemical constituents and uses of Taxus and Gentian. | 05 |
| Q.4 | (a) | Enlist modern methods of extraction. Describe electrophoresis in the detail. | 06 |
| | (b) | Describe steam distillation method with well labeled diagram. | 05 |
| | (c) | Write a short note on Narcotic preparation of Opium. | 05 |
| Q.5 | (a) | Write on sources, isolation and identification of Curcumin. | 06 |
| | (b) | Brief note on estimation and utilization of Sennoside. | 05 |
| | (c) | Write on industrial production and estimation of Caffeine. | 05 |
| Q. 6 | (a) | Write on sources, isolation and identification of Rutin. | 06 |
| | (b) | Brief note on estimation and utilization of Digoxin. | 05 |
| | (c) | Describe in detail on production and estimation of Vincristine. | 05 |
| Q.7 | (a) | Write on sources, isolation and identification of Quinine. | 06 |
| | (b) | Define Resins. Write a short note on Ginger. | 05 |
| | (c) | Write biological source, family, chemical constituents and uses of Benzoin and clove. | 05 |
