

**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.

- 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**

\*\*\*\*\*