

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
M.Ph Semester–III Examination Dec. - 2011

Subject code: 930105

Date: 10/12/2011

Subject Name: Traditional Drugs

Time: 10.30 am – 01.30 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) Define chemotaxonomy. Explain principle of chemotaxonomy by giving suitable example. **06**
(b) Describe chemotaxonomical significance of volatile oils in plants. **05**
(c) Explain usefulness of volatile oil to pharmaceutical industry. **05**
- Q.2** (a) Explain different derivatives of Vinca alkaloid and its significance. **06**
(b) Discuss estimation of Vasicine and its importance. **05**
(c) Give isolation method for quinine from Cinchona bark. Explain specific test for identification of quinine. **05**
- Q.3** (a) Define biodiversity. Explain its different level. Give its significance. **06**
(b) Discuss various techniques used in conservation of medicinal plants. **05**
(c) Discuss ex-situ conservation process for medicinal plants. **05**
- Q.4** (a) Write isolation method for morphine. Enumerate different identification test for morphine. **06**
(b) Give different sources of Rutin. Explain isolation method for rutin. **05**
(c) Write a note on plant growth inhibitor. **05**
- Q.5** (a) Describe estimation method of Sennoside. Give identification test for sennoside. **06**
(b) Discuss isolation of Glycyrrhizin and its importance. **05**
(c) Give estimation method for Diosgenin and its significance. **05**
- Q. 6** (a) Explain economic value of Medicinal Plant. Discuss factors affecting economic value of medicinal plant. **06**
(b) Describe different approaches for discovering drugs from medicinal plants. **05**
(c) Explain estimation method for Picroside and its identification test. **05**
- Q.7** (a) Explain different information sources available for herbal medicine. **10**
(b) Write a note on plant hormone which is useful in the formation of root. **06**
