

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

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

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.PHARM – SEMESTER – 8- EXAMINATION –WINTER - 2018**

**Subject Code:2280005****Date: 26/11/2018****Subject Name: Pharmacognosy-VI****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) What is standardization of herbal extracts? Enumerate various methods of standardization of herbal extracts with special reference to Turmeric or Garlic. **06**
- (b) Give details of recent developments in Hypolipidemic and Tranquilizer herbal drugs. **05**
- (c) Write detailed requirements of basic infrastructure, manpower needs, and specialized Equipments requirements of a herbal drug industry. **05**
- Q.2** (a) Write the official source, isolation techniques and method of estimation of Podophyllotoxin **06**
- (b) Write a note on concept of Schedule T. **05**
- (c) Write details of GMP in herbal drug industry. **05**
- Q.3** (a) Give detailed method for isolation of caffeine **06**
- (b) How Garcenia extract is prepared and standardized. **05**
- (c) Give method of preparation of Ashwagandha extract. **05**
- Q.4** (a) Write a note on R&D in herbal drug industry along with pilot scale up techniques. **06**
- (b) How Amla extract can be prepared give its procedural details. **05**
- (c) Describe method isolation of Rutin and Menthol. **05**
- Q.5** (a) Give the source, isolation techniques and method of estimation of Glycyrrhetic acid **06**
- (b) Write significance of standardization and evaluation in herbal drug industry **05**
- (c) Give details of various analytical techniques for phytopharmaceutical evaluation **05**

- Q. 6**
- (a) Give an appropriate method for estimation of Sennosides and Carotenoids **06**
  - (b) Write a note on isolation of Citral. **05**
  - (c) Describe a suitable method for isolation and estimation of Diosgenin. **05**
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- Q.7**
- (a) What is phytopharmacovigilance? Give its significance for herbal drug industry **06**
  - (b) Enumerate various crude drugs and their constituents useful as Immunomodulators **05**
  - (c) Enlist various crude drugs along with active constituents useful as Anticancer. **05**

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