

GUJARAT TECHNOLOGICAL UNIVERSITY**B.Pharm. - SEMESTER– VIII• EXAMINATION – SUMMER-2016****Subject Code:2280005****Date:06/05/2016****Subject Name: Pharmacognosy -VI****Time: 10:30 AM to 1:30 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) | Describe in detail four different methods which are used to prepare herbal extracts. | 06 |
| | (b) | Describe method for preparation of Amla and Garlic extracts. | 05 |
| | (c) | Mention different parameters required for standardization Amla extract & discuss them in detail. | 05 |
| Q.2 | (a) | Discuss about what do you mean phytopharmaceuticals evaluation. | 06 |
| | (b) | Describe different analytical technique employed for phytopharmaceutical evaluation. | 05 |
| | (c) | Discuss problems faced in India for phytopharmaceutical evaluation. | 05 |
| Q.3 | (a) | Mention natural sources for caffeine. Describe in detail suitable method for isolation of caffeine from above sources. | 06 |
| | (b) | Mention natural sources for diosgenin. Describe a suitable commercial method for isolation of diosgenin from it. | 05 |
| | (c) | Enumerate different methods for estimation of diosgenin. Describe any modern method for estimation of diosgenin. | 05 |
| Q.4 | (a) | Mention natural sources for Sennosides. Describe a suitable method for isolation of Sennosides. | 06 |
| | (b) | Describe a suitable method for estimation of Sennosides in a natural source. | 05 |
| | (c) | Describe a suitable method for isolation of curcumin from a natural source. | 05 |
| Q.5 | (a) | Mention natural sources for menthol. Describe in detail suitable method for isolation of menthol from a natural. | 06 |
| | (b) | Enlist different methods for estimation of citral from natural sources. Describe a suitable method for estimation of citral from a natural source. | 05 |
| | (c) | Describe a suitable method for isolation of penicillin. | 05 |
| Q. 6 | (a) | Discuss about requirement of infrastructure, staff and equipments for herbal drug industry. | 06 |
| | (b) | Describe different types of processes, type of research and development work and pilot scale up techniques, which are carried out in herbal drug industry. | 05 |
| | (c) | Describe a suitable method for isolation of atropine from a natural source. | 05 |
| Q.7 | (a) | Write a short note on phytopharmacovigilance. | 06 |
| | (b) | Name different herbs and their active constituents which are useful as hepatoprotective. | 05 |
| | (c) | Name different herbs and their active constituents which are useful as antidiabetic or anticancer agent. | 05 |
