

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Pharm – SEMESTER VIII • EXAMINATION – WINTER - 2016

Subject Code: 2280005**Date: 30/11/2016****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.

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| Q.1 | (a) | Define standardization. Mention different parameter for standardization of herbal extract. Describe any one in details. | 06 |
| | (b) | Write a note on recent developments in immunomodulators and antidiabetic drugs. | 05 |
| | (c) | Discuss about requirement of infrastructure, staff and equipments for herbal drug industry. | 05 |
| Q.2 | (a) | Mention natural sources, method for isolation and estimation for caffeine, sennosides and glycyrrhetic acid from above sources. | 16 |
| Q.3 | (a) | Write method of isolation of atropine and curcumin. | 08 |
| | (b) | Describe method for preparation and standardization parameters for Aswagandha and Amla extracts. | 08 |
| Q.4 | (a) | Define extraction. Write about different types of extraction methods. | 06 |
| | (b) | Write a note on Research and development and pilot scale up techniques. | 05 |
| | (c) | Describe method for preparation of Turmeric and Garlic extracts. | 05 |
| Q.5 | (a) | Discuss about what do you mean phytopharmaceuticals evaluation. Describe different analytical technique employed for phytopharmaceutical evaluation. | 10 |
| | (b) | What are the importance of standardization and phytopharmaceutical evaluation in herbal drug industry? | 06 |
| Q. 6 | (a) | Describe a suitable method for estimation of quinine and citral. | 06 |
| | (b) | Describe a suitable method for isolation of penicillin. | 05 |
| | (c) | Describe a suitable method for isolation and estimation of ephedrine. | 05 |
| Q.7 | (a) | Define and give importance of phytopharmacovigilance, estimation in herbal drug industry. | 06 |
| | (b) | Name different herbs and their active constitute which are useful as hepatoprotective or Hypolipidemic. | 05 |
| | (c) | Name different herbs and their active constitutes which are useful as anticancer or anti-asthamatic. | 05 |
