

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER- 8 EXAMINATION – WINTER -2019**Subject Code: 2280005****Date: 25-11-2019****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) | Mention natural sources for Sennosides. Describe a suitable method for isolation of Sennosides. | 06 |
| | (b) | Enumerate different methods for estimation of Diosgenin. Describe any one method for estimation of Diosgenin. | 05 |
| | (c) | Name different herbs and their active constituents which are useful as antidiabetic agent. | 05 |
| Q.2 | (a) | What is quality management system? Write a note on principles of ISO 9000 standards. | 06 |
| | (b) | Write a note on super critical fluid extraction for herbs. | 05 |
| | (c) | Write a note on scope of herbal drug industries with respect to Indian market. | 05 |
| Q.3 | (a) | Define standardization. Mention different parameter for standardization of herbal extract. Describe any one in details. | 06 |
| | (b) | Discuss the major sources of Reserpine and its method of isolation. | 05 |
| | (c) | Write a note on Aswagandha, emphasizing on its chemical constituents and uses. | 05 |
| Q.4 | (a) | Mention natural sources for menthol. Discuss its method of isolation and uses in pharmacy. | 06 |
| | (b) | What is phyto-pharmacovigilance? Write a note on its need and objectives. | 05 |
| | (c) | Describe method for preparation of Amla and Garlic extracts. | 05 |
| Q.5 | (a) | Name the different herbs and their active constituents, which are useful as memory enhancer. | 06 |
| | (b) | Mention natural sources, method for isolation and estimation for caffeine. | 05 |
| | (c) | State the major sources of Curcumin and discuss its importance. | 05 |
| Q.6 | (a) | Write the isolation method of β -carotene in detail. | 06 |
| | (b) | Describe a suitable method for isolation of penicillin. | 05 |
| | (c) | Describe a suitable method for estimation and uses of Glycyrrhetic acid. | 05 |
| Q.7 | (a) | Discuss the natural sources, method of isolation and uses of Rutin. | 06 |
| | (b) | Name the different herbs and their active constituents, which are useful as anticancer. | 05 |
| | (c) | Explain the method of isolation and uses of Quinine. | 05 |