

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.

- 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**