

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. - SEMESTER-8 • EXAMINATION – SUMMER -2018

Subject Code: 2280005

Date: 07/05/2018

Subject Name: Pharmacognosy-VI

Time: 10:30 AM TO 01:30 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) | Discuss the WHO guidelines for standardization of phytopharmaceuticals. | 06 |
| | (b) | Write different chemical tests used for identification of Caffeine. | 05 |
| | (c) | Describe the method of isolation of Ephedrine | 05 |
| Q.2 | (a) | Describe the following terms related to herbal extracts, with the help of proper diagrams.
(i) Maceration (ii) Percolation (iii) Soxhlet extraction | 06 |
| | (b) | Comment on concept of ISO-9000 in herbal drug industry. | 05 |
| | (c) | Mention recent herbal drugs which are used as Hepatoprotectives. | 05 |
| Q.3 | (a) | Explain various physical parameters used for evaluation of herbal drugs. | 06 |
| | (b) | What is the method of preparation and evaluation of Garlic extract? Also state its use. | 05 |
| | (c) | Mention natural source and suitable method for isolation of Vitamin A. | 05 |
| Q.4 | (a) | Write natural sources of Sennosides and the method of isolation of Sennosides. | 06 |
| | (b) | Enlist various herbs used as
(i) Antiasthmatic (ii) Tranquilizers | 05 |
| | (c) | Explain importance of Phytopharmacovigilance in industry. | 05 |
| Q.5 | (a) | Define and classify terpenoids. Write isolation method of β -carotene in brief. | 06 |
| | (b) | Discuss the modern herbal drugs implemented as Hypolipidemics. | 05 |
| | (c) | Discuss about infrastructure and staff requirement of an herbal drug industry. | 05 |
| Q.6 | (a) | Write different chemical tests for identification of glycosides. Give natural source for Diosgenin. | 06 |
| | (b) | State the major sources of Curcumin and the method of isolation of Curcumin. | 05 |
| | (c) | Discuss in detail the process of isolation of Penicillin. | 05 |
| Q.7 | (a) | What are the macroscopic and microscopic procedures used with respect to leaves for standardization of herbal drugs? | 06 |
| | (b) | Write a note on Garcenia, emphasizing on its chemical constituents, extraction and uses. | 05 |
| | (c) | Write different isolation and identification methods for Quinine. | 05 |
