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

## Subject Code: 2280005 Subject Name: Pharmacognosy-VI Time: 10:30 AM TO 01:30 PM

## Date: 07/05/2018

**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)<br>(b)<br>(c) | Discuss the WHO guidelines for standardization of phytopharmaceuticals.<br>Write different chemical tests used for identification of Caffeine.<br>Describe the method of isolation of Ephedrine   | 06<br>05<br>05 |
|------|-------------------|---|----------------|
| Q.2  | (a)               | Describe the following terms related to herbal extracts, with the help of proper<br>diagrams.<br>(i) Maceration (ii) Percolation (iii) Soxhlet extraction   | 06<br>05       |
|      | (b)<br>(c)        | Comment on concept of ISO-9000 in herbal drug industry.<br>Mention recent herbal drugs which are used as Hepatoprotectives.   | 05<br>05       |
| Q.3  | (a)<br>(b)        | Explain various physical parameters used for evaluation of herbal drugs.<br>What is the method of preparation and evaluation of Garlic extract? Also state<br>its use.  | 06<br>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<br>(i) Antiasththematic (ii) Tranquilizers<br>Euclain importance of Phytonharmacovicilance in industry   | 05             |
|      | (c)               | Explain importance of Phytopharmacovigilance in industry.   | 05             |
| Q.5  | (a)<br>(b)<br>(c) | Define and classify terpinoids. Write isolation method of $\beta$ -carotene in brief.<br>Discuss the modern herbal drugs implemented as Hypolipidemics.<br>Discuss about infrastructure and staff requirement of an herbal drug industry. | 06<br>05<br>05 |
| Q. 6 | (a)               | Write different chemical tests for identification of glycosides. Give natural source for Diosgenin.   | 06             |
|      | (b)<br>(c)        | State the major sources of Curcumin and the method of isolation of. Curcumin.<br>Discuss in detail the process of isolation of Penicillin.  | 05<br>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             |
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