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