Seat No.:	Enrolment No.
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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

B.Pharm - SEMESTER VIII • EXAMINATION - WINTER - 2016

Subject Code: 2280005 Date: 30/11/2016

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)	Define standardization. Mention different parameter for standardization of herbal extract. Describe any one in details.	06
	<b>(b)</b>	Write a note onrecent developments in immunomodulators and antidiabetic drugs.	05
	(c)	Discuss about requirement of infrastructure, staff and equipments for herbal drug industry.	05
Q.2	(a)	Mention natural sources, method for isolation and estimation for caffeine, sennosides and glycyrrhetinic acid from above sources.	16
Q.3	(a) (b)	Write method of isolation of atropine and curcumin.  Describe method for preparation and standardization parameters for Aswagandha and Amla extracts.	08 08
Q.4	(a) (b) (c)	Define extraction. Write about different types of extraction methods. Write a note on Research and development and pilot scale up techniques. Describe method for preparation of Turmeric and Garlic extracts.	06 05 05
Q.5	(a)	Discuss about what do you mean phytopharmaceuticals evaluation. Describe different analytical technique employed for phytopharmaceutical evaluation.	10
( <b>b</b>	<b>(b)</b>	What are the importance of standardization and phytopharmaceutical evaluation in herbal drug industry?	06
Q. 6	(a)	Describe a suitable method for estimation of quinine and citral.	06 05
	(b) (c)	Describe a suitable method for isolation of penicillin.  Describe a suitable method for isolation and estimation of ephedrine.	05 05
Q.7	(a)	Define and give importance of phytopharmacovigilance, estimation in herbal drug industry.	06
	<b>(b)</b>	Name different herbs and their active constitute which are useful as hepatoprotective or Hypolipedimic.	05
	(c)	Name different herbs and their active constitutes which are useful as anticancer or anti-asthamatic.	05

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