Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY B. PHARM (SEMESTER-8) SUMMER-2015**

Subject code: 280005

Subject Name: Pharmacognosy VII (Herbal Formulations and Complimentary Therapies)

Time: 10:30 am to 1:30 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)	Write a method for preparation of self generated alcohol Ayurvedic formulation with example	06
	(b) (c)	What is Bhasma? Explain their purification methods.  Define Poisonous Plant and give any four Biological sources and give their toxic effects in human.	05 05
Q.2	(a)	Define herbal substance, herbal preparation and Enlist only the name of various Quality control parameters as per WHO and explain any one.	06
	(b)	Define Adsorption chromatography and explain any one of the technique.	05
	(c)	Write down the Biological source, family, chemical constituents, uses and marketed formulation of (1) Gymnema (2) Palash	05
Q.3	(a)	Write down the general method of extraction process for obtaining (1) Alkaloids (2) Glycosides	06
	(b)	Name any five Government institutions / industries involved in work of medicinal plants in India.	05
	(c)	Write down the method of preparation of Taila with example.	05
Q.4	(a)	Draw neatly labeled Morphology and Transverse section of <i>Vitex negundo</i> leaf.	06
	(b)	Give the Biological sources, chemical constituents and uses of (1) Geranium oil (2) Mentha oil	05
	(c)	Give the Biological source, isolation method, chemical test and uses for Embelin containing drug Vidang.	05
Q.5	(a)	Write down the Biological source, family, chemical constituents and uses of drug (1) Katakari (2) karanj (3) Bhilama	06
	(b)	Give the sources, chemical structure and chemical test for the following phytoconstituents (1) Quinine (2) Atropine	05
	(c)	What is underground stem? Give the detailed pharmacognostical study of any one plant of this category.	05

Q. 6	(a)	Define tannins. Give the general chemical test for tannins and write a short notes on (1) Harde (2) Baheda.	06
	(b)	Write down the various modern extraction techniques for obtaining herbal extract.	05
	(c)	Write down the Biological source, family, chemical constituents, uses and marketed formulation of (1) Majith root (2) Vaj Rhizome	05
Q.7	(a)	Give the different sources of Sennoside and write down any Pharmacopeial method for its estimation.	06
	(b)	What is Hyphenated technique in chromatography and give its significance for herbal drug analysis.	05
	(c)	Write down the Biological source, family, chemical constituents, uses and marketed formulation of (1) Shirish Bark (2) Pterocarpus wood	05

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