Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

B. PHARM. - SEMESTER – VII • EXAMINATION – WINTER 2012

Subject code: 270005 Date: 05/01/2013

Subject Name: Pharmacognosy- VI (Herbal Drug Technology)

Time: 10.30 am - 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.**

Q. 1	(A)	What is Chromatography? Name different types of Chromatographic methods. Describe the simplest and the cheapest chromatographic method (TLC) giving its applications.	(06)
	(B)	Describe important parts of HPLC. Discuss importance of HPLC in evaluation of Crude drugs.	(05)
	(C)	What is HPTLC? What are different parts of HPTLC system? How it differs from TLC? For evaluation of Crude drugs, What is better HPTLC or HPLC? Why?	(05)
Q.2	(A)	What is marine Pharmacognogy? Name important anti-inflammatory and anticancer compounds derived from marine sources giving their biological sources and structures.	(06)
	(B)	What is chemotaxonomy? Giving suitable examples. explain importance of chemotaxonomy to a pharmacognosist.	(05)
	(C)	Discuss importance of marine Pharmacognosy and its future.	(05)
Q.3	(A)	What are natural allergens? Describe different types of natural allergens giving their effects.	(06)
	(B)	What are Photosensitising agents. Give names and sources of different photosensitizing agents. Explain mechanism of their action.	(05)
	(C)	What are pesticides? Name different types of natural insecticides and herbicides giving their sources and activity. Discuss their advantages. What is their position in India?	(05)
Q.4	(A)	Write a note on Herbal cosmetics.	(06)
	(B)	Write a note on Plant sweetners.	(05)
	(C)	Write a note on Plant bitters.	(05)
Q.5	(A)	Give Biological source, family, active constituents and uses different plants which are used Shankhpushpi in different parts of the country.	(06)
	(B)	Draw and describe morphological difference between Conolvullus pluricaulis and Evolvullus alsinoids.	(05)
	(C)	Write a short note on Guggul.	(05)
Q.6	(A)	Give biological source, family, active constituents and uses different plants which are used Punarnava.Give morphological difference between Satodi and Satodo.	(06)
	(B)	Give Biological source, family, active constituents and uses of Talispatra and Ashoka.	(05)
	(C)	Give Biological source, family, active constituents and uses of Gokhru and Kanchnar.	(05)
Q.7	(A)	Name biological sources, family, active constituents and uses of plants which are used as Brahmi. Give morphological difference between two plants which are used as Brahmi.	(06)
	(B)	Name different plants which are used as Rasna. Give biological sources, families, active constituents and uses these plants.	(05)
	(C)	Name different species of plants which are used as Nagarmotha. Give active constituents and uses of Nagarmotha.	(05)

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