Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. – SEMESTER – III • EXAMINATION – SUMMER • 2014

Subject Code: 2230006 **Date: 16-06-2014**

Subject Name: Pharmacognosy - I

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)**	What is a Phytoconstituent? Give detailed classification of it?	**06**
	(b)	Explain applications of Plant Hormones?	**05**
	(c)	Describe various methods of adulteration in crude drugs?	**05**
Q.2	**(a)**	Define Herbal drugs? Describe various sources of crude drugs with examples?	**06**
	(b)	What are non-living components of plants and explain significance of it?	**05**
	(c)	Explain factors affecting cultivation of crude drugs? Give significance of factors on cultivation of crude drugs?	**05**
Q.3	**(a)**	Define quantitative microscopy with examples? Give importance of quantitative microscopy in standardization of leaf drug by taking examples?	**06**
	(b)	Define Alkaloids and Glycoside? Give chemical tests for identification of it?	**05**
	(c)	Describe chemical classification of crude drug and give importance of chemotaxonomy in classification?	**05**
Q.4	**(a)**	Give detailed account on plant hormones with examples?	**06**
	(b)	Explain chemical evaluation of crude drugs with examples?	**05**
	(c)	Give detailed account on Acacia, Tragacanth and Guar gum?	**05**
Q.5	**(a)**	Explain WHO guidelines to evaluate crude drug with emphasis on microbial evaluation?	**06**
	(b)	Define Polyploidy, Mutation, Poly houses, Green houses, Tannins with suitable examples?	**05**
	(c)	Explain Pharmacognosy of lanolin, pongam oil, ricinus oil in detail?	**05**
Q. 6	**(a)**	Define carbohydrates? Explain classification and chemical tests for identification of carbohydrate?	**06**
	(b)	Define adulteration? Describe Physical evaluation methods for crude drugs?	**05**
	(c)	Give various types of soil and fertilizers?	**05**
Q.7	**(a)**	Define lipids? Give physico-chemical properties and classification of lipids with suitable examples?	**06**
	(b)	Give morphological and taxonomical classification of crude drug in detail?	**05**
	(c)	Define flavonoids and terpenes and give detailed account on chemical test for identification of it?	**05**

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