Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. – SEMESTER – III • EXAMINATION – WINTER • 2015

Subject Code: 2230006 **Date: 12-01-2016**

Subject Name: Pharmacognosy - I

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 Pharmacognosy? Write scope and significance of it.	**06**
	(b)	Define adulteration of crude drugs. Discuss different types of adulteration.	**05**
	(c)	Define leaf. Write functions of leaf. Give types of apex and margin of the leaf with diagram.	**05**
Q.2	**(a)**	Define crude drug. Enlist various sources of crude drugs giving suitable examples. Discuss the on tissue culture as a source of crude drug.	**06**
	(b)	Write down types of soil. Which common fertilizers are used to maintain soil fertility?	**05**
	(c)	What are plant growth regulators? How do they influence the growth of plants?	**05**
Q.3	**(a)**	Enlist the factors affecting the cultivation, collection and processing of crude drugs. Write a note on Extrinsic factor.	**06**
	(b)	What are the methods of classification of crude drugs? Describe therapeutic and pharmacological classification of crude drugs.	**05**
	(c)	Write a note on quantitative microscopy.	**05**
Q.4	**(a)**	Define tannins. Give classification, properties, general uses & chemical tests of them.	**06**
	(b)	Define resins, glycoside and volatile oils with examples.	**05**
	(c)	Describe the terms polyploidy and hybridization and explain their role in cultivation of medicinal plants.	**05**
Q.5	**(a)**	What is evaluation of crude drugs? Mention different methods of evaluation and discuss any one of them.	**06**
	(b)	Define following: (i) Iodine value (ii) Saponification value (iii) Peroxide value (iv) Acid value (v) Rancidity index	**05**
	(c)	Define lipids. Differentiate fats & waxes. Write preparation of castor oil.	**05**
Q. 6	**(a)**	What are the biological sources, chemical constituents and therapeutic Uses of linseed oil, cod liver oil and hydnocarpus oil.	**06**
	(b)	Give B.S., Chemical constituents, identification tests, method of preparation and uses of honey.	**05**
	(c)	Draw detailed labeled diagram of Dicot Leaf and Dicot Stem.	**05**
Q.7	**(a)**	Write biological source, chemical constituents, uses of acacia, Iasbgol and guar gum.	**06**
	(b)	Define following terms: i) Palisade ratio ii) Stomatal index iii) Vein-islet number iv) Standardization v) Substitution	**05**
	(c)	Define alkaloids, classify them and write their pharmacological action.	**05**

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