Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

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

Subject Code: 2240006 **Date: 13-01-2016**

Subject Name: Pharmacognosy - II

Time: 02:30 pm - 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 Volatile oils, Write its classification and Isolation methods from crude drugs.	**06**
	(b)	Write about the microscopical description of Eucalyptus leaf with proper diagram.	**05**
	(c)	Comment on the following: (1) "Coriander contains less volatile oils than fennel". (2) "Valerian is stabilized immediately after collection".	**05**
Q.2	**(a)**	How resins are classified? Explain with suitable examples.	**06**
	(b)	"Dried ginger is more pungent than fresh ginger"-Comment.	**05**
	(c)	Differentiate the followings. (1) Sumatra benzoin and Siam benzoin. (2) Indian Podophyllum and American Podophyllum.	**05**
Q.3	**(a)**	What is tannin? Classify the tannins with suitable examples. Explain Industrial application of tannins.	**06**
	(b)	Draw and describe transverse section of Dill fruit.	**05**
	(c)	Differentiate between (1) Tannins and Pseudotannins. (2) Pale catechu and Black catechu.	**05**
Q.4	**(a)**	Write Pharmacognostic profile of Caraway.	**06**
	(b)	Discuss in detail about the cultivation collection and chemical constituents Of Sandal wood.	**05**
	(c)	Write notes on 'Cannabis'.	**05**
Q.5	**(a)**	What is resin? Write a note on a drug containing Ester resin.	**06**
	(b)	Write Biological source, Chemical constituents and Uses of Vidang and Turmaric.	**05**
	(c)	Comment on the following. (1) "Dried capsicums are red in colour". (2) "Asafoetida give combined umbelliferon test".	**05**
Q. 6	**(a)**	Write notes on a drug belongs to Myrtaceae family.	**06**
	(b)	Write about the cultivation and collection of Nutmeg. Write the substituents of Nutmeg.	**05**
	(c)	Differentiate between (1) *Mentha piperita* and *Mentha spicata.* (2) Cinnamon bark and Cassia bark.	**05**
Q.7	**(a)**	Write the Biological source, Chemical constituents and uses of Asoka bark and Pterocarpus wood.	**06**
	(b)	Write in details about the drug rich in Vitamin C in your syllabus.	**05**
	(c)	Write in detail about the distillation methods.	**05**

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