Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

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

Subject Code: 230006 **Date: 16-06-2014**

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)	Discuss the properties of tannin and give the differences between hydrolysable and condensed tannin.	**06**
	(b)	Give the biological source, family, chemical constituents and method of preparation of Black catechu.	**05**
	(c)	Write Botanical sources, Family, Chemical constituents, uses and different varieties of capsicum.	**05**
Q.2	(a)	Write Biological source, Chemical constituents and uses of following drugs. 1)Nutmeg 2)Mentha 3) Lemongrass	**06**
	(b)	Give the differences between following. 1) Primary metabolites and secondary metabolites 2) Fixed oil and volatile oil	**05**
	(c)	Write a note on Jalap.	**05**
Q.3	(a)	What are resins? Describe properties and classification of resins containing drugs.	**06**
	(b)	Describe complete pharmacogonsy of eucalyptus	**05**
	(c)	Write a short note on Ginger.	**05**
Q.4	(a)	Explain the different methods for extraction of volatile oil.	**06**
	(b)	Discuss adulterants of clove.	**05**
	(c)	Discuss morphology and microscopy of fennel fruit.	**05**
Q.5	(a)	Comment on following. 1) Asafoetida gives combined umbelliferone test 2) Pale catechu gives Gambier fluorescence test positive. 3) Coriander fruit contains four vittae.	**06**
	(b)	Explain the different methods for preparation of extracts.	**05**
	(c)	Explain the preliminary phytochemical screening of alkaloids, saponin, flavonoids and anthraquinone glycosides.	**05**
Q. 6	(a)	Give the differences between following. 1) Chinese cinnamon and Ceylon cinnamon 2) Cardenolide and bufadienolide	**06**
	(b)	Write short notes on anticancer drugs.	**05**
	(c)	What are surgical fibers? Classify it giving suitable examples. Describe preparation & chemical identification of Silk.	**05**
Q.7	(a)	Define Pharmaceutical Aids. Enumerate various applications of Pharmaceutical aids with suitable examples.	**06**
	(b)	Write in brief on Natural colours.	**05**
	(c)	Write Chemical tests and therapeutic uses of Gelatin.	**05**

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