Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

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

Subject Code: 240006 **Date: 13-01-2016**

Subject Name: Pharmacognosy-III

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 Glycosides. Classify them with appropriate examples.	**06**
	(b) Differentiate Indian Senna and Alexandrian Senna.	**05**
	(c) Write the general chemical tests for glycosides.	**05**
Q.2	(a) Define enzymes. Classify those giving suitable examples. Add a note on their significance.	**06**
	(b) Give sources, method of preparation, properties and therapeutic importance of Papain.	**05**
	(c) Write a short note on Pepsin and Diastase.	**05**
Q.3	(a) Enlist name of plant drugs classified under Bitter glycosides. Write active constituents, uses and adulterants of Picrorrhiza.	**06**
	(b) Differentiate the various sources of aloes by Klunge's isobarbaloin test.	**05**
	(c) Draw a neat labeled T.S of Chirata.	**05**
Q.4	(a) Discuss in detail on drug containing steroidal saponin used in rheumatism.	**06**
	(b) Give biological source, family, chemical constituents, uses and adulterants of Thevetia.	**05**
	(c) Give biological source, family, chemical constituents, uses and adulterants of Rhubarb.	**05**
Q.5	(a) Write biological source, family chemical constituents and uses of Gentian.	**06**
	(b) Write a short note on Isothiocyanate glycosides.	**05**
	(c) What are coumarins? Mention their therapeutic applications.	**05**
Q. 6	(a) Give brief description of *Ammi majus*.	**06**
	(b) Draw neat and well labeled diagrams of Morphology & microscopy of Linseed seed.	**05**
	(c) What are Jamaican and Suriman Quassia? How are these two differentiated?	**05**
Q. 7	(a) Give a pharmacognostic note on Digitalis.	**06**
	(b) Write in short on cultivation, collection and storage of Ginseng.	**05**
	(c) Differentiate the O-glycoside and C-glycoside by chemical test.	**05**

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