Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharmacy Sem-II examination June 2009

Subject code: 220005	Subject Name: Pharmacognosy - I
Date: 12/06/2009	Time: 11:30am-2:30pm
Instructions:	Total Marks: 80

- 1. Attempt any five questions.
- Make suitable assumptions wherever necessary.
 Figures to the right indicate full marks.

Q.1	(a)	What is a crude drug? What are the methods of classification of	06
	(b)	crude drugs? Describe therapeutic classification of crude drugs. What is Pharmacognosy? Describe its history and scope for future	05
		drug development.	
	(c)	How tissue culture is being utilized as a source of herbal drugs and natural products?	05
Q.2	(a)	What are the morphological and histological features of monocot and dicot leaves?	06
	(b)	Write general morphological and microscopic characters of seeds and barks	05
	(c)	Why do stems and roots undergo modifications? Write a note on underground Stem modifications.	05
Q.3	(a)	Write a note on phyllotaxy and venation. Describe different types of leaf margins	06
	(b)	What is an inflorescence? What are different types of racemose inflorescence?	05
	(c)	What is a fruit? Write a note on types of fruits	05
Q.4	(a)	What are the factors affecting the cultivation, collection and processing of crude drugs?	06
	(b)	What are plant growth regulators? How do they influence the growth of plants?	05
((c)	Describe the terms polyploidy and hybridization and explain their role in cultivation of medicinal plants	05
Q.5	(a)	What is adulteration of crude drugs? How do you detect adulteration by organoleptic and microscopic characters?	06
	(b)	What physical constants and chemical parameters are usually determined for quality control of crude drugs?	05
	(c)	Write a note on chromatographic evaluation of crude drugs.	05
Q. 6	(a)	What are the biological sources and pharmaceutical applications of Guar gum, Pectin and Isabgol?	06
	(b)	What are gums? Write a note on gum Acacia and Gum Tragacanth	05
	(c)	What is the biological source and method of preparation of honey? How do you Test it? What are its uses?	05
Q.7 (a)	(a)		06
		What are fixed oils, fats and waxes? Define Saponification	
	(h)	value, Iodine value and Acid Value.	05
	(b)	What are the biological sources, chemical constituents and therapeutic Uses of castor oil, cod liver oil and hydnocarpus oil?	UO
	(c)	distaps and closes of custof on, cod fiver on and frydhocalpus on:	05
	(0)	Describe the biological sources, preparation and pharmaceutical uses of Bees wax and wool fat .	33
