Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. - SEMESTER - VII • EXAMINATION - WINTER 2013

-	-	Code: 270005 Date: 05-12-2013 Name: Pharmacognosy- VI (Herbal Drug Technology)	
Tim	e: 1(0.30 am - 01.30 pm Total Marks: 80	
Instr			
	2.	Attempt any five questions. Make suitable assumptions wherever necessary. Eigunes to the right indicate full marks	
	3.	Figures to the right indicate full marks.	
Q.1	(a)	mechanism of action of any two Cytotoxic compounds from marine source.	06
	(b)	Write a short note on Marine Toxins giving examples of poisonous substances from marine source.	05
	(c)	Mention in brief about α -kainic acid and Domoic acid as an anti-parasitic compound from marine source.	05
Q.2	(a)	Elaborate the applications of various chromatographic methods in the evaluation of herbal drugs.	06
	(b)	Discuss the Super Critical Fluid (SCF) Extraction. Enlist various solvents used as SCF with their advantages and disadvantages.	05
	(c)	Why CO ₂ is used as an ideal Supercritical Fluid. Explain mentioning the Phase Diagram.	05
Q.3	(a)	Define Chemosystematics. Mention earlier systems of classification for taxonomy elaborating Phylogenetic system of classification.	06
	(b)		05
	(c)	Explain the role of glycosides and volatile oils as secondary metabolites in chemotaxonomy of medicinal plants.	05
Q.4	(a)	Give a short note on Plant Sweeteners and Plant Bitters.	06
	(b)		05
	(c)	Define Pests. Classify natural pesticides. Give brief account on any one natural pesticide.	05
Q.5	(a) (b)	•	06 05
		properties for an ideal skin protective.	
	(c)	Write a note on Sunscreens explaining Sun Protection Factor (SPF).	05
Q. 6	(a)	Define Traditional drug. Differentiate between Satodi and Varsabhu as different varieties of Punarnava.	06
	(b)	Give the comparison of Bada Gokhru and Chota Gokhru from botanical and morphological aspects.	05
	(c)		05

Q. 7	(a)	Complex metabolic products are good chemotaxonomic marker. Justify the statement.	06
	(b)	Give the therapeutic indications of Shankhpushpi and Brahmi mentioning various marketed formulations.	05
	(c)	Mention the complete pharmacognosy of Neem.	05
