Seat No.:	Enrolment No
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Subject Code: 2230006

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. – SEMESTER – III • EXAMINATION – SUMMER • 2015

Date: 16-06-2015

_	e: 02 uctio	Name: Pharmacognosy - I 2:30 pm To 05:30 pm Total Marks: 80 ns: Attempt any five questions.	
	2.	Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	Define Crude drugs, classify them, and explain chemical classification with suitable example.	06
	(b)	Differentiate between monocot and dicot root, both morphologically and microscopically.	05
	(c)	Describe in brief marine and animal as sources of crude drugs.	05
Q.2	(a)	What is Pharmacognosy? Describe its history and scope for future drug development.	06
	(b) (c)	What are plant growth hormones? How do they regulate the growth of plants? Discuss in brief various parts of plants with their function.	05 05
Q.3	(a)	Discuss the advantages of cultivated medicinal plants over wild plants. List out the various intrinsic and extrinsic factors affecting Cultivation and collection of medicinal Plants.	
	(b) (c)	Differentiate terms organized and unorganized crude drugs with examples. Describe the terms mutation and hybridization and explain their role in cultivation of medicinal plants.	05 05
Q.4	(a)	Define the following terms: i) Palisade ratio ii) Polypoidy iii) Saponification value iv) Stomatal index v) Bark iv) Vascular bundles	06
	(b) (c)		05 05
Q.5	(a)	What physical constants and chemical parameters are usually determined for quality control of crude drugs?	06
	(b) (c)	What do you mean by active constituents? Explain with suitable examples. What are gums? Differentiate Gum Acacia and Gum Tragacanth.	05 05
Q. 6	(a)	What are lipids? Give their general properties. Differentiate Fats, Fixed oils and waxes giving suitable example.	06
	(b)	Define Adultration of crude drugs. Discuss different types of adulteration with suitable examples.	05
	(c)	What is the biological source, properties and method of preparation of honey? What are its uses?	05

Q.7	(a)	Write Botanical Source, Family, Chemical Constituents, and uses of following	06
		drugs:	
		(i) Wool fat	
		(ii) Seasame oil	
		(iii) Kokum butter	
(1	(b)	Give the biological source, chemical constituent and uses of any one fixed oil	05
		each from plant and marine source.	
	(c)	Define carbohydrates and add notes on Starch and Pectins	05
