

GUJARAT TECHNOLOGICAL UNIVERSITY

B.Pharm - SEMESTER-V- (NEW SYLLABUS) EXAMINATION – SUMMER-2015

Subject Code:2250006

Date: 08/05/2015

Subject Name: PHARMACOGNOSY-III

Time:2:30 pm to 5:30 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)	Write in brief about the Plant tissue culture and it's significance in Pharmacognosy.	06
	(b)	Discuss Micro & Macronutrients requirements of plant cells in culture medium.	05
	(c)	Define the term "Callus tissue" and "Totipotency".	05
Q.2	(a)	Write brief notes on <i>Ruta graveolens</i> .	06
	(b)	Illustrate the important microscopic features of Nerium leaf and add a note on its market formulations.	05
	(c)	" <i>Cascara bark is stored for 1 year then taken into use</i> "-Comment on this statement.	05
Q.3	(a)	Write the difference between (i) European squill and Indian Squill (ii) Alexandrian Senna and Indian Senna	06
	(b)	Write the Pharmacognosy of a memory enhancer drug included in your syllabus.	05
	(c)	" <i>Aloe gives modified borntrager test while Senna gives borntrager test</i> " Justify this comment.	05
Q.4	(a)	Draw the structure of the following.(i) Sennoside A &B (ii)Andrographolide (iii) Amygdalin	06
	(b)	Write the difference between Chirata and Kalmegh.	05
	(c)	Write a note on Saponin glycosides.	05
Q.5	(a)	Describe this Chemical test----(i) Borntrager's test (ii)Keller –killiani test	06
	(b)	Give note on Artificial-seeds.	05
	(c)	Prepare a note on Cyanogenic glycosides.	05
Q. 6	(a)	Write the biological sources, Chemical constituents and uses of Mustard and Black mustard.	06
	(b)	Name a bark belonging to the family Combretaceae. Give its source, constituents, pharmacological actions and uses.	05
	(c)	Write Pharmacognosy of <i>Trigonella foenum-graecum</i> .	05
Q.7	(a)	Discuss in detail requirements to establish a plant tissue culture laboratory.	06
	(b)	What is cryopreservation? Discuss its advantages.	05
	(c)	Explain cell suspension culture in detail.	05
