

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM – SEMESTER – 6- EXAMINATION –WINTER - 2018**Subject Code: 260006****Date: 03/12/2018****Subject Name: Pharmacognosy - V(Plant Bio Technology)****Time: 02:30 PM TO 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) Explain techniques for enhancing secondary plant metabolite production by tissue culture	06
	(b) Write in detail about protoplast culture	05
	(c) Write a note on medium used for plant tissue culture.	05
Q.2	(a) What is cryopreservation? Mention its importance	06
	(b) Write Differences between i) Suspension culture/ Static culture. ii) Prebiotics/ Probiotics	05
	(c) Write a note on different species of Plumbago.	05
Q.3	(a) Write in detail about varieties and properties of Shilajit.	06
	(b) Write a note on a seed drugs used as a brain tonic and as an anthelmintic	05
	(c) Write in detail about the Bhangro	05
Q.4	(a) Define Terpenoids. Write classification, occurrence and properties of them.	06
	(b) Write biogenesis and chemistry of menthone.	05
	(c) Write source and chemistry of carvone.	05
Q.5	(a) Write a note on a health food from natural source.	06
	(b) Give name of saponins containing drug as per your syllabus. Write detail of a seed drug containing the same component.	05
	(c) Write in short on Dhatakiipushpa	05
Q. 6	(a) Write a note on biosynthesis of Abietic acid	06
	(b) Write chemistry of Vitamin A.	05
	(c) Write Corn oil and methi used as health food	05
Q.7	(a) Give botanical sources, chemical constituents and uses of Karen and Chakramadu	06
	(b) Write a detailed note on tannin containing drugs of your syllabus	05
	(c) Explain Biotransformation- in PTC	05
