

**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.

<b>Q.1</b>	(a) Explain techniques for enhancing secondary plant metabolite production by tissue culture	<b>06</b>
	(b) Write in detail about protoplast culture	<b>05</b>
	(c) Write a note on medium used for plant tissue culture.	<b>05</b>
<b>Q.2</b>	(a) What is cryopreservation? Mention its importance	<b>06</b>
	(b) Write Differences between i) Suspension culture/ Static culture. ii) Prebiotics/ Probiotics	<b>05</b>
	(c) Write a note on different species of Plumbago.	<b>05</b>
<b>Q.3</b>	(a) Write in detail about varieties and properties of Shilajit.	<b>06</b>
	(b) Write a note on a seed drugs used as a brain tonic and as an anthelmintic	<b>05</b>
	(c) Write in detail about the Bhangro	<b>05</b>
<b>Q.4</b>	(a) Define Terpenoids. Write classification, occurrence and properties of them.	<b>06</b>
	(b) Write biogenesis and chemistry of menthone.	<b>05</b>
	(c) Write source and chemistry of carvone.	<b>05</b>
<b>Q.5</b>	(a) Write a note on a health food from natural source.	<b>06</b>
	(b) Give name of saponins containing drug as per your syllabus. Write detail of a seed drug containing the same component.	<b>05</b>
	(c) Write in short on Dhatakiipushpa	<b>05</b>
<b>Q. 6</b>	(a) Write a note on biosynthesis of Abietic acid	<b>06</b>
	(b) Write chemistry of Vitamin A.	<b>05</b>
	(c) Write Corn oil and methi used as health food	<b>05</b>
<b>Q.7</b>	(a)	<b>06</b>
	Give botanical sources, chemical constituents and uses of Karen and Chakramadu	
	(b) Write a detailed note on tannin containing drugs of your syllabus	<b>05</b>
	(c) Explain Biotransformation- in PTC	<b>05</b>

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