Seat No.: _____ Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.Pharm. SEMESTER–VII • EXAMINATION – SUMMER 2017

Subject Code: 2270005 **Date: 08/05/2017**
Subject Name: Pharmacognosy-V
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.**
4. **Draw a labeled diagram or chemical structures wherever required.**

Q.1	**(a)**	Write a note on biosynthetic pathway involving formation of amino acids in plants.	**06**
	(b)	Write down biogenesis of atropine and menthol.	**05**
	(c)	Discuss in detail about prebiotics and PUFA.	**05**
Q.2	**(a)**	Discuss in detail about pathway for biosynthesis of lipids in plants	**06**
	(b)	Write down biogenesis of diosgenin and ephedrine in plants.	**05**
	(c)	Write a brief note on plant sweetening agents.	**05**
Q.3	**(a)**	Write in detail about herbal drugs used as pesticides.	**06**
	(b)	Write down a pharmacognostic note on herbal drugs used as a brain tonic from your syllabus.	**05**
	(c)	Write a note on rasna-a controversial drug.	**05**
Q.4	**(a)**	Write biological source, chemical constituents and formulations of guduchi and punarnava.	**06**
	(b)	Write down detail pharmacognostic profile of drug belongs to plumbaginaceae family.	**05**
	(c)	Draw a well labeled morphological and microscopical diagram (transverse section) of nirgundi leaf .	**05**
Q.5	**(a)**	Explain the terms: 1) Ghrita 2) Pisti 3) Avaleha	**06**
	(b)	Define churna. Write a note on preparation and evaluation of triphala churna.	**05**
	(c)	What is ayurveda? Write a note on introduction and principles of ayurveda.	**05**
Q. 6	**(a)**	What is asava and aristha? Write a brief note on preparations, merits and demerits of asava and aristha.	**06**
	(b)	Define bhasma. Comment: Bhasmas are considered as a nanoparticles.	**05**
	(c)	Write in detail about types of natural allergens.	**05**
Q.7	**(a)**	Write a brief note on toxic plants.	**06**
	(b)	Discuss application of photosensitizing agents in pharmacy.	**05**
	(c)	Write a note on herbal cosmetics.	**05**

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