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GUJARAT TECHNOLOGICAL UNIVERSITY B.Pharm - SEMESTER-VI • EXAMINATION - WINTER 2017

Subject Code: 260006 Date: 17-11-2017 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) (b) (c)	Define plant tissue culture and explain suspension culture and its application. Explain protoplast fusion for plant tissue culture. Write a note on micro-propagation.	06 05 05
Q.2	(a) (b) (c)	Describe culture medium and its importance in plant growth. Discuss anther and pollen culture with suitable examples. Describe laboratory requirement for plant tissue culture laboratory.	06 05 05
Q.3	(a) (b) (c)	Discuss complete pharmacognosy of Karen. Write a detailed note on Shatavari Describe the microscopy of a traditional drug having anomalous vascular bundles.	06 05 05
Q.4	(a)(b)(c)	Write short note on Herb as a health food. Discuss suitable drugs examples used as health food. Write botanical name, family, part used, chemical constituents and uses of Galo. Write common name, biological source, chemical constituents, uses and marketed formulation of chitrak.	06 05 05
Q.5	(a) (b) (c)	Write a note on drug having steroidal saponins. Write a note on a drug used as a brain and nervine tonic. Enlist anthelmintic drugs. Describe the drug used in ring worm infection.	06 05 05
Q. 6	(a) (b) (c)	Describe schematically biosynthetic route of Mevalonate pathway to Isopentenyl diphosphate. Define and classify terpenoids with suitable examples and chemical structure. Write biogenesis of Geraniol or β – amyrin with chemical structure.	06 05 05
Q.7	(a) (b) (c)	Describe the biogenesis of carvone in detail. Describe the chemistry of vitamin A. Write a note on bicyclic monoterpenoids.	06 05 05
