

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.

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| 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 |
