

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. – SEMESTER – III • EXAMINATION – SUMMER • 2014

Subject Code: 2230006

Date: 16-06-2014

Subject Name: Pharmacognosy - I

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.**

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|-------------|--|-----------|
| Q.1 | (a) What is a Phytoconstituent? Give detailed classification of it? | 06 |
| | (b) Explain applications of Plant Hormones? | 05 |
| | (c) Describe various methods of adulteration in crude drugs? | 05 |
| Q.2 | (a) Define Herbal drugs? Describe various sources of crude drugs with examples? | 06 |
| | (b) What are non-living components of plants and explain significance of it? | 05 |
| | (c) Explain factors affecting cultivation of crude drugs? Give significance of factors on cultivation of crude drugs? | 05 |
| Q.3 | (a) Define quantitative microscopy with examples? Give importance of quantitative microscopy in standardization of leaf drug by taking examples? | 06 |
| | (b) Define Alkaloids and Glycoside? Give chemical tests for identification of it? | 05 |
| | (c) Describe chemical classification of crude drug and give importance of chemotaxonomy in classification? | 05 |
| Q.4 | (a) Give detailed account on plant hormones with examples? | 06 |
| | (b) Explain chemical evaluation of crude drugs with examples? | 05 |
| | (c) Give detailed account on Acacia, Tragacanth and Guar gum? | 05 |
| Q.5 | (a) Explain WHO guidelines to evaluate crude drug with emphasis on microbial evaluation? | 06 |
| | (b) Define Polyploidy, Mutation, Poly houses, Green houses, Tannins with suitable examples? | 05 |
| | (c) Explain Pharmacognosy of lanolin, pongam oil, ricinus oil in detail? | 05 |
| Q. 6 | (a) Define carbohydrates? Explain classification and chemical tests for identification of carbohydrate? | 06 |
| | (b) Define adulteration? Describe Physical evaluation methods for crude drugs? | 05 |
| | (c) Give various types of soil and fertilizers? | 05 |
| Q.7 | (a) Define lipids? Give physico-chemical properties and classification of lipids with suitable examples? | 06 |
| | (b) Give morphological and taxonomical classification of crude drug in detail? | 05 |
| | (c) Define flavonoids and terpenes and give detailed account on chemical test for identification of it? | 05 |
