

GUJARAT TECHNOLOGICAL UNIVERSITY**B.PHARM. - SEMESTER- VII • EXAMINATION – SUMMER-2016****Subject Code: 270005****Date: 11/05/2016****Subject Name: Pharmacognosy- VI (Herbal Drug Technology)****Time: 2:30 PM to 5:30 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) Discuss the morphological and microscopical differences between different varieties of Shankhpushpi. | 06 |
| | (b) Explain transverse section of Neem bark and leaf | 05 |
| | (c) Write a note on Diuretic drugs | 05 |
| Q.2 | (a) Define chromatography and discuss principle and classification of chromatography. | 06 |
| | (b) Discuss the differences between GC and HPLC. | 05 |
| | (c) Give the application of HPTLC in herbal drug analysis. | 05 |
| Q.3 | (a) Give the Biological source, Family, Chemical constituents, Uses and adulterant of following drugs.
1. Bitter apple 2. Nagarmoth | 06 |
| | (b) Give the pharmacological actions and adulterants of Asoka bark. | 05 |
| | (c) Discuss complete pharmacognosy of Talispatra. | 05 |
| Q.4 | (a) Discuss any one unorganised drug for arthritis. | 06 |
| | (b) Explain mechanism of action of furanocoumarin in photosensitization. | 05 |
| | (c) Give the different types of allergen and explain contactant allergen in detail. | 05 |
| Q.5 | (a) Give the differences between following drugs.
1. Greater galangal and Lesser galangal
2. Bada Gokhru and Chota Gokhru
3. Centella asiatica and Bacopa monniera | 06 |
| | (b) Write a short note on plant sweeteners. | 05 |
| | (c) Give the Name, Source and structure of anticancer compounds from marine source. | 05 |
| Q. 6 | (a) Write on herbs used in hair care and skin care. | 06 |
| | (b) Give the difference between photodynamic and photosensitizing agent and give the natural sources for photosensitizing agent. | 05 |
| | (c) Give the importance of natural pesticide over synthetic pesticide and discuss some plants as an insecticide. | 05 |
| Q. 7 | (a) Discuss importance of phenolic compounds in chemotaxonomy. | 06 |
| | (b) Discuss the principle and application of chemotaxonomy in classification of plant kingdom. | 05 |
| | (c) Discuss importance of fungal toxins in standardization of herbal drugs. | 05 |
