

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.

- 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. **06**
1. Bitter apple 2. Nagarmoth
(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. **06**
1. Greater galangal and Lesser galangal
2. Bada Gokhru and Chota Gokhru
3. Centella asiatica and Bacopa monniera
(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**
