

**GUJARAT TECHNOLOGICAL UNIVERSITY****B. Pharm. – SEMESTER-VIII EXAMINATION – SUMMER-2016****Subject Code:2280014****Date:10/05/2016****Subject Name: Commerce of herbs and Phytoconstituents****Time:10:30 am to 1:30 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) Write a short note on extraction of phytochemicals from the herbal drugs. **06**  
(b) Give the industrial uses of Taxol and Curcumin. **05**  
(c) What are the staff requirements for the herbal drug industry? **05**
- Q.2** (a) Give the WHO guidelines on good manufacturing practices for the manufacturer of herbal medicines. **06**  
(b) Write in a detail about the types of herbal extracts of aromatic plants. **05**  
(c) Describe in brief the import and export of the herbal drugs. **05**
- Q.3** (a) How to isolate, identify and analyze the vinca alkaloids and diosgenin. **06**  
(b) Give the detail about the ideal requirements for the storage and supply of the herbal drugs for medicinal uses. **05**  
(c) What are the processing technologies available in India for medicinal and aromatic plants? **05**
- Q.4** (a) Give the WHO guidelines on good agricultural and collection practices (GACP) for medicinal plants. **06**  
(b) Describe patents and copyrights of herbal drug. **05**  
(c) Write a short note on herbal wealth of other countries. **05**
- Q.5** (a) What are the legal requirements for the licenses and registration required in India for herbal drug industry? **06**  
(b) Give the contribution of aloe, ginseng and senna in the world wide trade. **05**  
(c) Explain in brief the trade of guggulu, boswellia and withania. **05**
- Q.6** (a) Describe the modern quality control system for medicinal plants in herbal drug industry. **06**  
(b) Give the detail pharmacognosy of camptothecin, ephedrine and papain. **05**  
(c) Give your ideas to develop the herbal drug trade. **05**
- Q.7** (a) Explain any five aromatic plants used in herbal drug industry. **06**  
(b) Write a short note on cultivation of medicinal plants. **05**  
(c) Describe the methods of standardization of herbal drugs. **05**

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