

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.**

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| 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 |
