

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Pharm. - SEMESTER VIII · EXAMINATION – WINTER -2016

Subject Code: 2280014**Date: 02/12/2016****Subject Name: Commerce of herbs and phytoconstituents****Time: 02.30 pm – 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) | How to isolate, identify and analyze the morphine and curcumin. | 06 |
| | (b) | Give the WHO guidelines on good manufacturing practices for the manufacturer of herbal medicines. | 05 |
| | (c) | Give the industrial contribution of liquorice and senna. | 05 |
| Q.2 | (a) | Write a short note on import export of the herbal drugs. | 06 |
| | (b) | What are license and registration procedure required for herbal drug industry in India? | 05 |
| | (c) | Give a note on production, supply and distribution of medicinal plants. | 05 |
| Q.3 | (a) | Give the detail Pharmacognosy of atropine and papain. | 06 |
| | (b) | What are the staff requirements for the herbal drug industry? | 05 |
| | (c) | Describe the modern quality control system for medicinal plants in herbal drug industry. | 05 |
| Q.4 | (a) | Give a short note on worldwide trade of echinacea and withania. | 06 |
| | (b) | Write a note on industrially important medicinal plants. | 05 |
| | (c) | Give the industrial application of vinca alkaloids and artemisinin. | 05 |
| Q.5 | (a) | Give the methods of standardization of herbal drugs. | 06 |
| | (b) | Explain in detail about types of herbal extracts of aromatic plants. | 05 |
| | (c) | Write a note on herbal wealth of India. | 05 |
| Q. 6 | (a) | What are the constraints to the development of trade in herbal drug industry? | 06 |
| | (b) | Explain in detail about extraction of phytoconstituents from the herbal drugs. | 05 |
| | (c) | Describe patents and copyright of herbal drug. | 05 |
| Q.7 | (a) | Give the WHO guidelines on good agriculture and collection practices for medicinal plants. | 06 |
| | (b) | Explain in brief about trade of aloe and ipecac. | 05 |
| | (c) | Write a note on cultivation and collection of medicinal plants. | 05 |
