

GUJARAT TECHNOLOGICAL UNIVERSITY
M. Pharm. – SEMESTER – III • EXAMINATION – WINTER • 2014

Subject Code: 930105**Date: 06-12-2014****Subject Name: Traditional Drugs****Time: 10:30 am - 01:30 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) | What is chemotaxonomy ? Explain principles of chemotaxonomy. Discuss chemotaxonomy of volatile oil in plants. | 06 |
| | (b) | Write down methods of isolation, purification and identification of Vinca alkaloids. | 05 |
| | (c) | Write down methods of isolation, purification and identification of Anthraquinones. | 05 |
| Q.2 | (a) | Define Plant growth regulators. Classify them and explain in brief any two of them. | 06 |
| | (b) | Write down identification, estimation and importance of Morphine. | 05 |
| | (c) | Write down identification, estimation and importance of Reserpine. | 05 |
| Q.3 | (a) | What is Biodiversity? Write in detail about biodiversity conservation methods. | 06 |
| | (b) | Give Methods of isolation, estimation and importance of Quinine. | 05 |
| | (c) | Give Methods of isolation, estimation and importance of Diosgenin. | 05 |
| Q.4 | (a) | Write a note on Herbal medicine information sources from books, journals and online databases. | 06 |
| | (b) | Write down estimation, conversion to useful derivatives and importance of Solasodine. | 05 |
| | (c) | Write down estimation, conversion to useful derivatives and importance of Glycyrrhizin. | 05 |
| Q.5 | (a) | Write down important properties of plant growth regulators. Compare Auxin and Cytokinin for their plant growth regulating actions. | 06 |
| | (b) | Write down conversion to useful derivatives and importance of Vinca alkaloids. | 05 |
| | (c) | Write down conversion to useful derivatives and importance of Anthraquinones. | 05 |
| Q. 6 | (a) | Write methods of identification, estimation and importance of Rutin. | 06 |
| | (b) | Write methods of isolation, purification and conversion to useful derivatives of Rutin. | 05 |
| | (c) | Write methods of isolation, purification and conversion to useful derivatives of Ephedrine. | 05 |
| Q.7 | (a) | Write down distribution of volatile oil in plants. Write in detail about their importance in industry. | 06 |
| | (b) | Write down Methods of isolation, identification, estimation and importance of Picroside. | 05 |
| | (c) | Write down Methods of identification, estimation, conversion to useful derivatives and importance of Vasicine. | 05 |