

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.PHARM- SEMESTER-VIII • EXAMINATION – SUMMER-2017**

**Subject Code: 2280005**

**Date: 06/05/2017**

**Subject Name: Pharmacognosy-VI**

**Time: 10:30 AM to 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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|-------------|--|-----------|
| <b>Q.1</b>  | (a) Discuss at length the method of Isolation of Quinine.  | <b>06</b> |
|             | (b) Write the identification test and estimation of Quinine.   | <b>05</b> |
|             | (c) Write a note on Isolation of Penicillin.   | <b>05</b> |
| <b>Q.2</b>  | (a) Write the method of Isolation of Glycyrrhetic acid.  | <b>06</b> |
|             | (b) Brief note on Identification and Estimation of Sennoside.  | <b>05</b> |
|             | (c) Write on sources, isolation and identification of podophyllotoxin.   | <b>05</b> |
| <b>Q.3</b>  | (a) Discuss in details process, advantage and applications of counter current extraction.  | <b>06</b> |
|             | (b) Give principle and application of Ultrasound assisted extraction.  | <b>05</b> |
|             | (c) Write a note on principle and method of super critical extraction method.  | <b>05</b> |
| <b>Q.4</b>  | (a) Write a short note on modified large scale maceration methods.   | <b>06</b> |
|             | (b) Enlist parameters for estimation of phytoconstituents by quantitative chemical methods. Explain any two methods  | <b>05</b> |
|             | (c) Discuss in brief evaluation of herbal Extract.   | <b>05</b> |
| <b>Q.5</b>  | (a) What is Quality management system? Write a note on principles of ISO 9000 standards.   | <b>06</b> |
|             | (b) Write a note on Quality control requirements and distribution of records for Ayurvedic, Unani and homeopathic medicine as per Schedule-T.              | <b>05</b> |
|             | (c) Write a role and use of herbal Anti-diabetic drugs in modern therapeutic management.   | <b>05</b> |
| <b>Q. 6</b> | (a) What are the cGMP requirement in India for the manufacturing of sterile Ayurvedic preparation?   | <b>06</b> |
|             | (b) Enlist the equipment's and area requirement for enhance quality control section as per cGMP requirement for Ayurvedic, Unani and Homeopathic medicine. | <b>05</b> |
|             | (c) What is herbal pharmacovigilance? Write a note on need and objectives of the herbal pharmacovigilance.   | <b>05</b> |
| <b>Q.7</b>  | (a) Discuss method of Isolation of Morphine.   | <b>06</b> |
|             | (b) Write Identification and estimation of Beta-carotene   | <b>05</b> |
|             | (c) Write a note on scope of herbal drug industries with respect to Indian Market.   | <b>05</b> |

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