

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER- 8 EXAMINATION – SUMMER-2024

Subject Code: 2280005**Date: 15/05/2024****Subject Name: Pharmacognosy-VI****Time: 10.30 a.m. to 1.30 p.m.****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) | Explain principle, instrumentation and factors affecting the Microwave Assisted Extraction method. | 06 |
| | (b) | Discuss on recent developments in natural products used as anticancer agents. | 05 |
| | (c) | Write a note on isolation and estimation of caffeine. | 05 |
| Q.2 | (a) | Write the method for isolation of penicillin. | 06 |
| | (b) | Explain the role on natural products as anticancer agents. | 05 |
| | (c) | Enumerate the modern analytical techniques for analysis of herbal drugs. Explain in detail any one of technique. | 05 |
| Q.3 | (a) | Write on isolation method and estimation of quinine. | 06 |
| | (b) | Discuss on importance of ISO 9000 principles in herbal drug industries. | 05 |
| | (c) | Write a brief note on continuous hot extraction method. | 05 |
| Q.4 | (a) | Discuss about the staff requirements and equipments for herbal drug industry. | 06 |
| | (b) | Describe isolation method for glycerrhetinic acid. | 05 |
| | (c) | Write a note on super critical fluid extraction. | 05 |
| Q.5 | (a) | Write a brief note on Schedule T. | 06 |
| | (b) | Describe the method for isolation of menthol. | 05 |
| | (c) | Explain the term standardization. Give method of preparation and standardization parameters of Ashwagandha extract. | 05 |
| Q. 6 | (a) | Define pharmacovigilance. Explain in detail the importance of pharmacovigilance. | 06 |
| | (b) | Write general procedure of maceration. Explain modified methods of maceration. | 05 |
| | (c) | Write the methods for isolation and estimation of atropine. | 05 |
| Q.7 | (a) | Justify the statement-“Herbal drugs are potent source of immunomodulators.” | 06 |
| | (b) | Describe the methods for isolation and estimation of podophyllotoxin. | 05 |
| | (c) | Discuss at length on counter current extraction method. | 05 |
