

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER- 8 EXAMINATION – SUMMER -2019

Subject Code: 2280005

Date: 16-05-2019

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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|-------------|-----|---|-----------|
| Q.1 | (a) | Enumerate different parameters for standardization of Amla extract. Explain any two in detail. | 06 |
| | (b) | Write therapeutic significance, isolation method and qualitative identification of Cinchona alkaloids. | 05 |
| | (c) | Describe a suitable method for isolation of Streptomycin. | 05 |
| Q.2 | (a) | Write therapeutic significance and different isolation methods of Diosgenin. | 06 |
| | (b) | Give a brief account on Soxhlet extraction with well labeled diagram. | 05 |
| | (c) | Describe in detail recent natural products used as Immunomodulators. | 05 |
| Q.3 | (a) | Give qualitative and quantitative analytical methods for evaluation of Alkaloids. | 06 |
| | (b) | Enlist sources of Sennosides. Explain principle and procedure for estimation of Sennosides as per IP method. | 05 |
| | (c) | Discuss in brief concept of GMP in herbal drug industry. | 05 |
| Q.4 | (a) | Enumerate different estimation methods of Morphine in Opium. Discuss any two in detail. | 06 |
| | (b) | Write a short note on Phytopharmacovigilance. | 05 |
| | (c) | Give sources and therapeutic significance of Podophyllotoxin. Discuss its method of isolation and purification. | 05 |
| Q.5 | (a) | Mention natural sources of Rutin. Describe qualitative identification tests and quantitative estimation methods of Rutin. | 06 |
| | (b) | Write a note on natural products used as Anticancer agents. | 05 |
| | (c) | Give salient features of Pilot plant scale up techniques in herbals. | 05 |
| Q. 6 | (a) | Discuss the modern herbal drugs used as Antidiabetics. | 06 |
| | (b) | Give method of isolation, identification and estimation of Vitamin A. | 05 |
| | (c) | Write evaluation techniques for Volatile oil containing drugs. | 05 |
| Q.7 | (a) | What is ISO 9000? Elaborate the benefits of implementation of ISO 9000 in herbal drug industry. | 06 |
| | (b) | Enlist Non-conventional extraction methods. Write a note on Microwave assisted extraction method. | 05 |
| | (c) | Discuss method of isolation, identification and estimation of Menthol. | 05 |
