

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.Ph. - SEMESTER- VIII EXAMINATION – WINTER -2022**

**Subject Code:2280005****Date: 29/12/2022****Subject Name: Pharmacognosy - VI****Time: 02:30pm to 05:30pm****Total Marks: 80****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Write a note on WHO guideline for evaluation of Phytopharmaceuticals. **06**  
(b) Discuss the application HPTLC and GCMS in analysis of phytopharmaceuticals. **05**  
(c) Write a note on following Extraction methods (Any Two) **05**  
i. Maceration ii. Super Critical Fluid extraction iii. Percolation
- Q.2** (a) Define standardized extract. Give merits and problem associated with preparation of standardized extract. **06**  
(b) Write a note on Turmeric standardized extract. **05**  
(c) Discuss on preparation of Amala and Garlic standardized extract. **05**
- Q.3** (a) Discuss on scope and challenges of herbal drug industries in India. **06**  
(b) Write a note on plant equipment, processing and scale-up techniques of any one herbal product. **05**  
(c) Discuss the concept and principles of ISO – 9000 in herbal drug industries. **05**
- Q.4** (a) Describe the methods for analysis of Artemisin and Rutin. **06**  
(b) Write a note on Isolation and identification methods of Morphine. **05**  
(c) Write note on Isolation and analysis of Penicillin or Streptomycin. **05**
- Q.5** (a) Write a note on Raw material store Mmnegement and Record of Market complaints in accordance with Schedule –T. **06**  
(b) Write a note on concept and importance of Phytopharmacovigilance. **05**  
(c) Write a note various plant drug used as Antidiabetics. **05**
- Q. 6** (a) Describe Isolation and Identification by chemical test of Atropine And Caffeine. **06**  
(b) Describe the suitable analytical methods used for evaluation of Diosgenin and Curcumin. **05**  
(c) Write a note on isolation methods of Sennosides and  $\beta$ -carotenoids. **05**
- Q.7** (a) Write a note on natural products used as Anticancer and Immunomodulators. **06**  
(b) Enlist the various plant used as Hapatoprotective and Tranquilisers. **05**  
(c) Write a note on analytical method for the Citral and Podophilotoxin. **05**

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