

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.Ph. - SEMESTER– VIII EXAMINATION – WINTER -2020****Subject Code:2280005****Date: 12/01/2021****Subject Name: Pharmacognosy - VI****Time: 02:00PM TO 04:00PM****Total Marks: 54****Instructions:**

1. Attempt any **THREE** questions from Q-1 to Q-6.
2. Q.7 is compulsory to attempt.
3. Make suitable assumptions wherever necessary.
4. Figures to the right indicate full marks.

- Q.1** (a) Write a note 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) Write a note on principles of ISO – 9000 in herbal drug industries. **05**
- Q.2** (a) Describe Isolation and Identification by chemical test of Artemisine And Morphine. **06**  
(b) Describe the suitable analytical methods used for evaluation of Quinine and Podophyllotoxin. **05**  
(c) Write a note on isolation methods of Reserpine and Vitamin-A. **05**
- Q.3** (a) Write a note on Raw material store Manegement and Record of Batch Manufacturing Record in accordance with Schedule –T. **06**  
(b) Write a note on Phytopharmacovigilance. **05**  
(c) Write a note various plant drug used as Anti-cancer agents. **05**
- Q.4** (a) Describe the methods for analysis of Menthol and Sennoside. **06**  
(b) Write a note on Isolation and identification methods of Caffeine. **05**  
(c) Write note on Isolation and analysis of Penicillin or Streptomycin. **05**
- Q.5** (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. Decoction ii. Super Critical Fluid extraction iii. Percolation
- Q. 6** (a) Write a note on natural products used as Hepatoprotective and Tranquilisers. **06**  
(b) Enlist the various plant used as Antidiabetics and Immunomodulators. **05**  
(c) Write a note on analytical method for the Glycyrrhetic acid and Curcumin. **05**
- Q.7** (a) Define standardized extract. Give merits and problem associated with preparation of standardized extract. **06**
- OR**
- (a) Write a note on Amla standardized extract. **06**
- OR**
- (a) Discuss on preparation of Turmeric and Garlic standardized extract. **06**

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