

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

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

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

**Subject Code: 2280005**

**Date: 30-11-2024**

**Subject Name: Pharmacognosy-VI**

**Time: 02.30 PM TO 05.30 PM**

**Total Marks: 80**

**Instructions:**

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

- Q.1** (a) Explain standardized extract and quantified extract in detail. **06**  
(b) Write method of preparation of Turmeric extract and Enlist evaluation parameters. **05**  
(c) Give definition of Phyto-pharmaceuticals, explain role of chromatographic technique for their evaluation. **05**
- Q.2** (a) Explain how Diosgenin is isolated, analyzed and Industrially utilized. **06**  
(b) Give sources, isolation method, uses and evaluation of menthol. **05**  
(c) Write identification tests of Atropine, Quinine, Ephedrine, Morphine and Reserpine. **05**
- Q.3** (a) Write isolation methods of sennoside and rutin. **06**  
(b) Write a note on ISO 9000 for Herbal Drug Industry. **05**  
(c) Explain pilot plant scale up technique with technical details. **05**
- Q.4** (a) Give sources, isolation method, uses and evaluation of podophyllotoxin. **06**  
(b) Draw detailed isolation method of Penicillin antibiotic. **05**  
(c) Define phyto-pharmacovigilance and write a note on process of ADR reporting. **05**
- Q.5** (a) Explain Ashwagandha leaf extract and root extract preparation. Differentiate its utilization, uses and evaluation. **06**  
(b) Explain concept of schedule T as per AYUSH guidelines. **05**  
(c) Discuss Quality control lab and storage area specifications as per GMP guidelines. **05**
- Q. 6** (a) Classify herbs with tranquilizer, hypnotic and memory enhancer action. Explain memory enhancer in detail. **06**  
(b) How record keeping is significant to a herbal drug industry as per GMP guidelines? Explain. **05**  
(c) Write sources, isolation and identification test of Caffiene. **05**
- Q.7** (a) Give reason; **06**  
1. Gokhru is a potential lythotryptic drug  
2. Ashwagandha is immuno-modulator not immuno enhancer drug  
(b) Write a note on liver tonic plants. **05**  
(c) Enlist plant drugs with cancer prevention potential. Explain any one in detail. **05**

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