

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER- 8 EXAMINATION – SUMMER -2023

Subject Code: 2280005**Date: 23/06/2023****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.**

- Q.1** (a) Name different methods of preparation of the herbal extracts and describe them in brief. **06**
- (b) Describe a suitable method for preparation of extract of Amla and standardization of the extract. **05**
- (c) Describe a suitable method for preparation of the extract of Garlic and standardization of it. **05**
- Q.2** (a) Explain what do you mean by phytopharmaceutical evaluation? Name and describe role of different modern analytical techniques for analysis of herbal drugs. **06**
- (b) Name the sources for Diosgenin and describe a suitable method for isolation of Diosgenin from it. Describe identification method for Diosgenin and analysis of it from the crude drug. **05**
- (c) Name the commercial sources for isolation Artemisin and describe a method for isolation of it from them. Describe identification method for Artemisin and describe analysis of it from the crude drug. **05**
- Q.3** (a) Name commercial sources for Glycyrrhetic acid and isolation of it from the crude drug. Describe identification method for Glycyrrhetic acid and analysis of it from the crude drug. **06**
- (b) Give sources for commercial scale isolation of Atropine and describe method of isolation of it from them. Describe method of identification and analysis of Atropine from the crude drug. **05**
- (c) Mention sources for commercial scale isolation of Podophyllotoxin and describe isolation procedure of it from them. Describe identification of Podophyllotoxin and analysis of it from the crude drug. **05**
- Q.4** (a) Name the commercial sources for Streptomycin, describe production and isolation of it. Describe identification method for Streptomycin and analysis of it. **06**
- (b) Describe requirement of infrastructure, staff, equipments, processing, project profile for Herbal drug Industry. **05**
- (c) Discuss about concept of schedule T, GMP and ISO-9000 in herbal drug industry. **05**
- Q.5** (a) Give names, biological sources and active constituents of any six herbs which are used as Antidiabetic. **06**
- (b) Give names, biological sources and active constituents of any five herbs which are used as Hepatoprotective. **05**
- (c) Mention names, biological sources and constituents of any five herbs which are used as Antiasthematic. **05**
- Q. 6** (a) Write short note on Anticancer herbal drugs. **06**
- (b) Write short note on Lythotryptic herbal drugs. **05**
- (c) Write short note on Memory enhancer herbal drugs. **05**
- Q.7** (a) Write a note on preparation of extract of Garcenia and its standardization. **06**
- (b) Write a note on isolation, identification and analysis of Menthol. **05**
- (c) Write a brief note on phytopharmacovigilance. **05**