

**GUJARAT TECHNOLOGICAL UNIVERSITY****B.PHARM - SEMESTER- 6 EXAMINATION – SUMMER-2024****Subject Code:BP603TP****Date: 04/05/2024****Subject Name: Herbal Drug Technology****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) Give a brief note on Processing of Herbal raw material. **06**  
(b) What is Ayurveda? Write in detail about basic concept of ayurvedic system **05**  
(c) Define Bhasma. Describe in detail method of preparation of Bhasma. Describe quality control parameters for Bhasma. **05**
- Q.2** (a) Define Aristas and Asavas. Write down method of preparation and standardization of Aristas. **06**  
(b) Discuss different methods of pest control. **05**  
(c) Write a note on biodynamic agriculture. **05**
- Q.3** (a) Define Nutraceuticals. Write down its classification with examples. **06**  
(b) Write a note on Garlic and Spirulina as Health food. **05**  
(c) Explain mechanism of drug interaction. **05**
- Q.4** (a) Enlist parameters for quality assessment of herbal drugs. Discuss physical evaluation in detail with example. **06**  
(b) Write methods and factors affecting Stability studies of Herbal drugs. **05**  
(c) Define Biopiracy. Give a detailed note on case study of Curcuma. **05**
- Q.5** (a) Write detailed requirements of basic infrastructure, manpower needs, and specialized Equipment requirements of a herbal drug industry. **06**  
(b) Write objectives and significance of GMP. **05**  
(c) Give a brief account of Plant based Industries and various institutions involved in work on medicinal and aromatic plants in India. **05**
- Q.6** (a) Define and classify the herbal cosmetics. Write in detail pharmacognosy of any two plants used as hair growth promoter. **06**  
(b) Define herbal excipients. Write advantages and disadvantages of herbal excipients. **05**  
(c) Write a note on novel drug delivery system for herbal dosage forms. **05**
- Q.7** (a) What are the macroscopic and microscopic procedures used with respect to leaves for standardization of herbal drugs? Explain with example. **06**  
(b) Write a note on different chromatographic techniques used in evaluation of herbal drugs. **05**  
(c) Write a note on regulation of manufacture of ASU drugs. **05**