

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Ph. –SEMESTER–7 EXAMINATION – WINTER -2023

Subject Code: 2270005

Date:11/12/2023

Subject Name: Pharmacognosy V

Time: 10:30am to 01:30pm

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) Explain in detail: Biosynthesis of Diosgenin through acetate mevalonate pathway. **06**
(b) Write in detail; shikimic acid pathway. **05**
(c) Explain how Omega fatty acid are biosynthesized? **05**
- Q.2** (a) Give detailed classification of Nutraceuticals with examples. **06**
(b) Describe allergenic extract preparation with labelling requirements. **05**
(c) Give definition of primary and secondary metabolites with examples. **05**
Describe radio isotope tracer technique in brief.
- Q.3** (a) Write a note on; **06**
[i] toxalbumins [ii] fungal toxin.
(b) Differentiate photosensitizing agents and photo dynamic agents. **05**
(c) Describe photo dynamic therapy for cancer and Photo therapy for vitiligo. **05**
- Q.4** (a) Write a short note on; **06**
[i] natural rodenticide [ii] natural insecticide
(b) Write in brief; Principles of Ayurveda system of medicines. **05**
(c) Describe major natural sweeteners; sweetening index and applications. **05**
- Q.5** (a) Explain skin cosmeceuticals of anti-ageing and skin whitening categories. **06**
(b) Give differences between Ghrita and Taila. **05**
(c) How Churna, Gutika and Kwatha are evaluated? **05**
- Q. 6** (a) Write key principles of Unani and Homeopathy medicinal system. **06**
(b) Draw morphology and microscopical characters of Galo. **05**
(c) Explain chemical constituents and pharmacological effects of Shakhpushpi and Malkangni on Brain. **05**
- Q.7** (a) Write in detail; **06**
[i] Role of Dhataki pushpi in Arishta preparation
[ii] Role of Shilajit as a Rasayana drug
(b) Give sources, major identification character and uses of Chitrak **05**
(c) Differentiate; Greater galangal and lesser galangal. **05**
