

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.PHARM - SEMESTER-6 EXAMINATION – WINTER -2023**

**Subject Code: BP603TP****Date: 07/12/2023****Subject Name: Herbal Drug Technology****Time: 02.30 p.m. to 5.30 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.

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|-------------|-----|---|-----------|
| <b>Q.1</b>  | (a) | Explain Alternative system of Medicine. Write in detail about Homeopathic system of medicine.                 | <b>06</b> |
|             | (b) | Write about Good Agricultural Practices (GAP) in cultivation of medicinal plants briefly.                     | <b>05</b> |
|             | (c) | Classify Ayurvedic dosage forms. Explain method of preparation of and evaluation of Ghutika.                  | <b>05</b> |
| <b>Q.2</b>  | (a) | Define herbal medicine. Give a brief note on Processing of Herbal raw material.                               | <b>06</b> |
|             | (b) | Write note on Biopesticides in pest management of medicinal plants.   | <b>05</b> |
|             | (c) | Write detail note on any two Plant sweeteners.  | <b>05</b> |
| <b>Q.3</b>  | (a) | Mention the role of Ashwagandha and Spirulina as health food.   | <b>06</b> |
|             | (b) | Give note on Side effects and drug interactions of Kava-Kava and Hypercium.                                   | <b>05</b> |
|             | (c) | Define Nutraceuticals. Mention benefits of Nutraceuticals in various Gastro intestinal diseases.              | <b>05</b> |
| <b>Q.4</b>  | (a) | Define herbal cosmetic. Write note on herbal origin raw material used as coloring agent and bleaching agents. | <b>06</b> |
|             | (b) | Enlist various herbal excipients and describe in detail about viscosity builders and perfumes.                | <b>05</b> |
|             | (c) | Give Pharmacognosy of any two herbs used in oral hygiene products.  | <b>05</b> |
| <b>Q.5</b>  | (a) | Define phytosomes. Explain various method of preparation of phytosomes.                                       | <b>06</b> |
|             | (b) | Enlist various herbal formulations. Write brief note on herbal mixture with examples.                         | <b>05</b> |
|             | (c) | Give a note on patenting aspects of Traditional Knowledge and Natural Products with reference to Neem.        | <b>05</b> |
| <b>Q. 6</b> | (a) | Explain WHO guidelines in quality assignment of herbal drugs.   | <b>06</b> |
|             | (b) | Define the terms: Farmers right, Breeder's right and Biopiracy.   | <b>05</b> |
|             | (c) | Write salient features of Schedule Z of Drugs & Cosmetics Act for ASU drugs.                                  | <b>05</b> |
| <b>Q.7</b>  | (a) | Describe Infrastructural, machinery and equipment requirements as per schedule T.                             | <b>06</b> |
|             | (b) | Discuss the scope and future prospects of herbal drug industry.   | <b>05</b> |
|             | (c) | Write a brief account of plant based industries and institutions in India.                                    | <b>05</b> |

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