

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.Pharm. - SEMESTER-VI • EXAMINATION – WINTER -2022**

**Subject Code: BP603TP****Date: 30/12/2022****Subject Name: Herbal Drug Technology****Time: 02:30PM TO 05:30PM****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) Define pesticides and write in detail any two natural pesticides.  | <b>06</b> |
|            | (b) Define herb and herbal medicine. Write a note on Selection, identification and authentication of herbs and herbal materials. | <b>05</b> |
|            | (c) What is Ayurveda? Write a note on principles of Ayurveda.  | <b>05</b> |
| <b>Q.2</b> | (a) Define and classify the Nutraceuticals.  | <b>06</b> |
|            | (b) Define interaction and its classification.   | <b>05</b> |
|            | (c) Discuss in detail about prebiotics and PUFA.   | <b>05</b> |
| <b>Q.3</b> | (a) Discuss in detail about protective agents and bleaching agents used in herbal cosmetic formulations.                         | <b>06</b> |
|            | (b) Write a note on fixed oils, waxes, gums used in herbal formulations.   | <b>05</b> |
|            | (c) Give the detail note on plants used as binders and diluents.   | <b>05</b> |
| <b>Q.4</b> | (a) Write a note on stability testing of herbal drugs as per WHO & ICH guidelines.   | <b>06</b> |
|            | (b) Explain Case study of Curcuma in context to patenting aspects of Traditional Knowledge and Natural Products                  | <b>05</b> |
|            | (c) Write a note on regulation of manufacture of ASU drugs.  | <b>05</b> |
| <b>Q.5</b> | (a) Write a note on concept of Schedule T.   | <b>06</b> |
|            | (b) Write a note on scope of herbal drug industries.   | <b>05</b> |
|            | (c) Discuss about requirement of infrastructure and equipments for herbal drug industry.   | <b>05</b> |
| <b>Q.6</b> | (a) Write method of preparation and standardization parameters of Asava and Arishta.   | <b>06</b> |
|            | (b) Write a note on herbal phytosomes.   | <b>05</b> |
|            | (c) Explain the different methods of pest control.   | <b>05</b> |
| <b>Q.7</b> | (a) Define and classify the herbal cosmetics. Write in details on any two plants used for skin cosmetics.                        | <b>06</b> |
|            | (b) Discuss on regulatory parameters for permitted colors and flavors used in herbal cosmetics.                                  | <b>05</b> |
|            | (c) Define Bhasma. Write down its method of preparation.   | <b>05</b> |