

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

**Subject Code: BP603TP****Date: 22/06/2023****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.

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|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| <b>Q.1</b>  | (a) Write about Good Agricultural Practices (GAP) in cultivation of medicinal plants briefly.                                                                            | <b>06</b> |
|             | (b) Define :Asavas and Aristas. Write in detail about method of preparation for Asavas and Aristas                                                                       | <b>05</b> |
|             | (c) Name different traditional systems of medicine. Describe theory and concept of Ayurvedic system of medicine                                                          | <b>05</b> |
| <b>Q.2</b>  | (a) Enlist various herbal formulations available in market and explain in detail about herbal syrup.                                                                     | <b>06</b> |
|             | (b) Define and classify the herbal cosmetics. Write in details pharmacognosy of any two plants used in skincare products.                                                | <b>05</b> |
|             | (c) Define: <i>churna</i> ? Write in detail about method of preparation and evaluation parameters of <i>churna</i> .Give advantages and disadvantages of <i>churna</i> . | <b>05</b> |
| <b>Q.3</b>  | (a) Write about Herbal-Drug interaction. Explain in detail with one suitable example for each of Herb-drug and herb-food interaction.                                    | <b>06</b> |
|             | (b) Write a note on WHO guidelines in quality assessment of herbal drugs.                                                                                                | <b>05</b> |
|             | (c) What is Pest and Pesticides? Explain in detail about Bio -Pesticides.                                                                                                | <b>05</b> |
| <b>Q.4</b>  | (a) Define Bhasma. Give method of preparation and evaluation parameters for bhasma.                                                                                      | <b>06</b> |
|             | (b) Mention the role of Any two herbs used as Health Food.                                                                                                               | <b>05</b> |
|             | (c) Explain in detail about Herbal Phytosomes.                                                                                                                           | <b>05</b> |
| <b>Q.5</b>  | (a) Enlist various herbal excipients and describe in detail about flavours and Perfumes.                                                                                 | <b>06</b> |
|             | (b) Define Neutraceuticals. Mention benefits of Neutraceuticals in various CVS disorders.                                                                                | <b>05</b> |
|             | (c) Write a note on plant sweeteners.                                                                                                                                    | <b>05</b> |
| <b>Q. 6</b> | (a) Explain term AST DTAB and ASU DCC. Explain in detail about Schedule Z of Drugs and Cosmetics Act for ASU drugs.                                                      | <b>06</b> |
|             | (b) Discuss about requirement of infrastructure, staff and equipments for herbal drug industry.                                                                          | <b>05</b> |
|             | (c) Explain in detail about ICH guidelines for Stability Testing of herbal drugs.                                                                                        | <b>05</b> |
| <b>Q.7</b>  | (a) Write about Components and Objectives of Good Manufacturing Practices (GMP) for Ayurvedic medicines.                                                                 | <b>06</b> |
|             | (b) Define the terms : Farmer's right, Breeder's right, Patent, IPR and Bio piracy.                                                                                      | <b>05</b> |
|             | (c) Explain in detail about patenting aspects of Traditional Knowledge giving Example of Neem.                                                                           | <b>05</b> |