Roll No…….. **Total No. of Printed Pages: 1**
Total No. of Questions: [13]

B. Pharmacy (Semester – 6th)
HERBAL DRUG TECHNOLOGY
Subject Code: BP603T
Paper ID: 17170131

Time: 03 Hours **Maximum Marks: 75**

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 9 questions of 5 marks each. The student has to attempt any 7 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A **(2 marks each)**

Q1. Attempt the following:
a) Mention two regulatory bodies for herbal drug regulation in India.
b) List any two herbs used as health food and their benefits.
c) Give biological source of two bioinsecticides used in medicinal plant cultivation.
d) Explain herb-drug interaction with an example.
e) What is the importance of stability testing in herbal drugs?
f) Define patent and IPR.
g) Discuss the process of preparation of churna.
h) Define herbal medicinal products and herbal drug preparation.
i) What are the components of GMP (Good Manufacturing Practices) as per Schedule T?
j) What are herbal excipients? Give two examples.

Section – B **(5 marks each)**

Q2. Explain the process of selection, identification, and authentication of herbal materials.
Q3. Describe the preparation and standardization of Ayurvedic formulations such as Aristas and Asawas.
Q4. Discuss the role of nutraceuticals in managing cardiovascular diseases.
Q5. What are the side effects and interactions of Ginseng and Ephedra in herbal formulations?
Q6. Explain the significance of natural-origin excipients like sweeteners and viscosity builders in herbal formulations.
Q7. What are the infrastructural requirements for GMP compliance in the herbal drug industry?
Q8. Discuss the patenting aspects related to traditional knowledge with reference to Curcuma.
Q9. Explain the regulatory requirements for manufacturing ASU drugs as per Schedule Z of the Drugs & Cosmetics Act.
Q10. Describe the WHO guidelines for the evaluation of herbal drugs.

Section – C **(10 marks each)**

Q11. Explain in detail the principles of Ayurveda, Siddha, Unani, and Homeopathy systems of medicine.
Q12. Discuss the herbal drug industry in India. Highlight its current scope and future prospects.
Q13. Explain the concept of biodynamic agriculture. Discuss its principles, practices, and significance in the cultivation of medicinal plants.