

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Ph. - SEMESTER-III • EXAMINATION – WINTER -2022

Subject Code: BP305TP**Date: 21/02/2023****Subject Name: Pharmacognosy and Phytochemistry I****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) Enumerate different systems of medicines and write in detail about Ayurvedic system of medicine. **06**
(b) What is a primary metabolite? Write a note on carbohydrates as a primary metabolite. **05**
(c) Differentiate plants as a source of drugs from animals as a source of drugs. **05**
- Q.2** (a) Define the term 'Pharmacognosy'. Prove with examples how Pharmacognosy was prevalent even long back. Enlist the scope of Pharmacognosy. **06**
(b) Differentiate organized drugs and unorganized drugs with examples. **05**
(c) What is serotaxonomical classification of drugs? Explain in detail. **05**
- Q.3** (a) With examples classify the crude drugs morphologically. **06**
(b) Differentiate symbiosis and antibiosis with examples. **05**
(c) Define allelopathy and explain in detail with examples. **05**
- Q.4** (a) Write biological source, chemical constituents and uses of guar gum and honey. **06**
(b) Differentiate the sexual method of cultivation from asexual method of cultivation with examples. **05**
(c) Write a short note on chemotaxonomical classification of crude drugs. **05**
- Q.5** (a) Give general chemical tests for identification of acacia, pectin and tragacanth. **06**
(b) Differentiate hydrolysable tannins from condensed tannins with examples. **05**
(c) What is plant tissue culture? Give its advantages and disadvantages. **05**
- Q.6** (a) Define the following terms. i) Saponification ii) Polyploidy iii) Iodine value iv) Mutation v) Stomatal index vi) Palisade ratio **06**
(b) Write a short note on natural allergens. **05**
(c) What are the nutritional requirements for plant tissue culture? **05**
- Q.7** (a) Write in detail about drug adulteration. **06**
(b) Write a short note on plant hormones. **05**
(c) What are enzymes? Classify enzymes and write a detailed note on any one. **05**
