

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Pharm. – SEMESTER-III • EXAMINATION – WINTER -2021

Subject Code: BP305TP**Date: 23/02/2022****Subject Name: Pharmacognosy and Phytochemistry-I****Time: 10:30AM TO 01:30 PM****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) Define Pharmacognosy. Discuss in brief about scope and Development of Pharmacognosy. | 06 |
| | (b) Enumerate sources of crude drugs. Explain in detail about animals as a source of crude drugs. | 05 |
| | (c) Define crude drug. Write down its different method of classification. Discuss chemical classification of crude drugs with examples. | 05 |
| Q.2 | (a) What is drug evaluation? Write down types of evaluation of crude drugs. Discuss in brief about morphological evaluation of crude drugs. | 06 |
| | (b) What is drug adulteration? Explain in detail about different types of drug adulteration. | 05 |
| | (c) Write a note on Plant hormones. | 05 |
| Q.3 | (a) Enlist the factors affecting the cultivation, collection and processing of crude drugs. Write a note on soil and soil fertility. | 06 |
| | (b) Define plant tissue culture. Write applications of plant tissue culture. | 05 |
| | (c) Discuss nutritional requirements for plant tissue culture. | 05 |
| Q.4 | (a) Define Glycosides. Discuss its properties. Give its classification with suitable examples. | 06 |
| | (b) Role of Pharmacognosy in Ayurvedic system of medicine. | 05 |
| | (c) Give a brief review on Homeopathic medicine system. | 05 |
| Q.5 | (a) Define following i) Polyploidy ii) Mutation iii) Iodine value iv) Saponification value v) Palisade ratio vi) Stomatal index | 06 |
| | (b) What is fibre? Classify it and write a note on Cotton. | 05 |
| | (c) Write a note on Natural allergens | 05 |
| Q.6 | (a) Differentiate between i) Organized drugs vs Unorganized drugs
ii) Fat vs Wax
iii) Hydrolysable tannins vs Condensed tannins | 06 |
| | (b) Define carbohydrate. Classify it. Write a note on Honey. | 05 |
| | (c) Give the complete Pharmacognosy of Castor oil. | 05 |
| Q.7 | (a) Define Enzyme. Classify it with suitable examples. Explain Papain. | 06 |
| | (b) Write down biological source, chemical constituents and uses of Agar and Wool fat. | 05 |
| | (c) Give a descriptive note on novel medicinal agents obtained from marine source. | 05 |
