

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Ph. - SEMESTER- 3• EXAMINATION – SUMMER -2023

Subject Code:BP305TP**Date:14/08/2023****Subject Name: Phramacognosy and Phytochemistry-I****Time:10:30 AM TO 1:30 PM****Total Marks: 80****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

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| Q.1 | (a) Enlist various methods of Classification of Crude drugs. Discuss pharmacological classification of crude drugs with examples. | 06 |
| | (b) Define pharmacognosy and discuss its scope and development | 05 |
| | (c) Write a note on marine as source of crude drug. | 05 |
| Q.2 | (a) Enlist factors affecting Cultivation of medicinal plants and discuss any two in detail. | 06 |
| | (b) Differentiate followings:
(i) Organized Drugs & Unorganized Drugs (ii) Volatile Oil & Fixed Oil | 05 |
| | (c) Enlist different traditional systems of medicines and explain Ayurvedic system of medicine. | 05 |
| Q.3 | (a) Enlist methods of Evaluation of crude drugs. Explain physical evaluation of crude drugs. | 06 |
| | (b) Write a note on various method of adulteration with suitable example | 05 |
| | (c) Discuss the sexual and asexual methods of vegetative propagation in brief. | 05 |
| Q.4 | (a) Explain different types of Culture in Plant tissue culture. | 06 |
| | (b) Give the applications of Plant Tissue culture Technique. | 05 |
| | (c) Discuss plant hormones and their applications in plant growth and development | 05 |
| Q.5 | (a) Define glycoside. Classify and give identification test for it. | 06 |
| | (b) Define alkaloids. Write properties and identification test for it. | 05 |
| | (c) Give biological source, chemical constituents, method of preparation, identification tests and uses of honey. | 05 |
| Q. 6 | (a) Write biological sources, chemical constituents and uses of bees wax and castor oil | 06 |
| | (b) Give biological source, chemical constituents identification tests and uses of agar and tragacanth. | 05 |
| | (c) Write a note on microscopical evaluation of crude drug. | 05 |
| Q.7 | (a) Define the following terms: i) Mutation ii) Hybridization iii) Plant tissue culture iv) Drug evaluation v) stomatal index | 06 |
| | (b) Define enzyme. Give detail note on papain and bromeline | 05 |
| | (c) Classify the Fibers and write a note on cotton in detail. | 05 |
