

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM SEMESTER - III EXAMINATION – SUMMER - 2022

Subject Code:BP305TP**Date: 09/09/2022****Subject Name: Pharmacognosy & Phytochemistry-I****Time: 02:30pm to 05:30pm****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) Definition, History and Scope of Pharmacognosy. | 06 |
| | (b) Enumerate Different Sources of Crude Drugs. Describe in detail about Marine sources. | 05 |
| | (c) Enumerate Different methods of Classification of Crude drugs. Discuss Alphabetical classification of crude drugs with examples. | 05 |
| Q.2 | (a) Define Adulteration. Write any five methods of adulteration with example. | 06 |
| | (b) Enlist methods of Evaluation of crude drugs. Explain Ash value & Extractive value for assessment of crude drugs. | 05 |
| | (c) Explain Stomatal number and Stomatal index in detail. | 05 |
| Q.3 | (a) Enlist factors affecting Cultivation of medicinal plants. Write note on types of Pest and methods of Pest control. | 06 |
| | (b) Write importance of Plant Growth regulators/ Plant Hormones. | 05 |
| | (c) Write application of Mutation and Hybridization. | 05 |
| Q.4 | (a) Define Plant Tissue Culture. Explain different types of Culture in Plant tissue culture. | 06 |
| | (b) Write composition of Nutritional media in Plant tissue culture. | 05 |
| | (c) Write note on Edible vaccine. | 05 |
| Q.5 | (a) Enlist Traditional medicinal systems. Write Principle of Ayurveda. | 06 |
| | (b) Define Alkaloids. Write Classification, properties and identification tests for Alkaloids. | 05 |
| | (c) Write Composition and Properties of Glycosides with examples. | 05 |
| Q. 6 | (a) Define Fibres. Classify them and write Wool in detail. | 06 |
| | (b) Write types of Natural Allergen with their symptoms and examples. | 05 |
| | (c) Write Preparation and application of Pepsin and Papain. | 05 |
| Q.7 | (a) Write different sources, properties, chemistry and application of Starch. | 06 |
| | (b) Write biological source, family, chemical composition and use of Acacia and Guar gum. | 05 |
| | (c) Differentiate followings:
(i) Volatile Oil & Fixed Oil
(ii) Organized Drugs & Unorganized Drugs | 05 |