

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM – SEMESTER III • EXAMINATION – SUMMER -2021

Subject Code: BP305TP**Date: 02/09/2021****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) Define Pharmacognosy. Describe scope & development of Pharmacognosy. | 06 |
| | (b) Write a note on Physical evaluation of crude drugs in detail. | 05 |
| | (c) Discuss in brief plants & animals as a source of crude drugs with suitable examples. | 05 |
| Q.2 | (a) Explain Polyploidy and its role in cultivation of medicinal plants. | 06 |
| | (b) Define adulteration. Describe various types of adulteration for crude drugs. | 05 |
| | (c) Define & classify Glycosides in detail with suitable examples. | 05 |
| Q.3 | (a) Write a note on nutritional requirements for Plant tissue culture. | 06 |
| | (b) Define Plant tissue culture. Write a note on Cell Suspension culture. | 05 |
| | (c) Enlist various extrinsic factors affecting to the cultivation of medicinal plants. Explain any two in detail. | 05 |
| Q.4 | (a) Give following chemical tests: (i) Goldbeater's skin test
(ii) Modified Borntrager's test
(iii) Keller Kiliani test | 06 |
| | (b) Define Alkaloids. Give physical & chemical properties of Alkaloids. | 05 |
| | (c) Write a note on Ayurvedic system of Medicine in detail. | 05 |
| Q.5 | (a) Define Protoplast. Describe Protoplast culture in detail. | 06 |
| | (b) Write a note on Natural allergens. | 05 |
| | (c) Discuss about Vegetable Pepsin enzyme in detail. | 05 |
| Q.6 | (a) Write biological source, family, chemical constituents & uses of Bees wax & Chaulmoogra oil. | 06 |
| | (b) Write the biological source, family, method of preparation and uses of Honey. | 05 |
| | (c) Differentiate followings: (i) Fixed Oils & Volatile Oils
(ii) Organized crude drugs & Unorganized crude drugs | 05 |
| Q.7 | (a) Write a note on any two plant growth regulators. | 06 |
| | (b) Describe Pharmacological classification of crude drugs with examples. | 05 |
| | (c) Write a note on different leaf constants. | 05 |