

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Ph. – SEMESTER VII- • EXAMINATION – SUMMER -2022

Subject Code: 2270005**Date: 13/06/2022****Subject Name: Pharmacognosy V****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) Enumerate types of secondary metabolites and classify different biogenetic pathways of plants and their respective phyto-constituents in detail. | 06 |
| | (b) Explain in detail how tropane alkaloids are biosynthesized. | 05 |
| | (c) Draw a detailed acetate mevalonate pathway and draw genesis of menthol or carotenoids from it. | 05 |
| Q.2 | (a) Write in detail about definition, types, preparation, storage, legal aspects and applications of allergenic extracts. | 06 |
| | (b) Enumerate poisonous plants, their toxic constituents and their identification tests. | 05 |
| | (c) Write a brief note on fungal toxins. | 05 |
| Q.3 | (a) Define Photo dynamic agents and explain in detail about Photo dynamic therapy for cancer. | 06 |
| | (b) Draw a well labeled bio-genetic pathway of omega 3 fatty acid. | 05 |
| | (c) Draw a well labeled bio-genetic pathway of Ephedrine. | 05 |
| Q.4 | (a) Write detailed difference between; <ol style="list-style-type: none"> 1. probiotics and prebiotics 2. Poly unsaturated fatty acids and Ω-3 fatty acids | 06 |
| | (b) Write about need of natural insecticides over synthetic pesticides and write about any two major natural insecticides. | 05 |
| | (c) Define nutraceuticals and write in detail about role of different anti-oxidants as nutraceuticals. | 05 |
| Q.5 | (a) Give definition of Cosmetics and cosmeceuticals. Give classification of cosmetic products. Write potential of herbal cosmetics over synthetic cosmetics with examples. | 06 |
| | (b) Define sweetening Index. Write a note on Plant sweeteners. | 05 |
| | (c) Write a note on anti-ageing natural cosmeceuticals. | 05 |
| Q. 6 | (a) Write detailed difference between; <ol style="list-style-type: none"> 1. Ghrita and Taila 2. Arishta and Bhasma | 06 |
| | (b) Classify different ayurvedic preparations with examples. Write about churna formulation with evaluation parameters. | 05 |
| | (c) Write in detail about principles and holistic concepts of Ayurveda system of medicines. | 05 |
| Q.7 | (a) Write about Shankhpushpi as a controversial drug, its sources, morphology, major constituents and pharmacological uses. | 06 |
| | (b) Write source of the following drugs; <ol style="list-style-type: none"> 1. Shirish 2. Galo 3. Kalijiri 4. Dhatakipushp 5. Nagod | 05 |
| | (c) Write a note on Shilajit – a rasayana drug. | 05 |