

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Pharm – SEMESTER VII–EXAMINATION – SUMMER -2021

Subject Code:2270005**Date: 07/08/2021****Subject Name: Pharmacognosy – V****Time:10:30am To 01:30pm****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) Mention the basic metabolic pathways which lead to the biosynthesis of medicinally active constituents in plants. Define primary and secondary metabolites. | 06 |
| | (b) Define allergens. Describe the procedure for preparing allergens used for allergy test. | 05 |
| | (c) Write a note on chemical method of pest control. Classify giving suitable example. | 05 |
| Q.2 | (a) Why do saturated fatty acids have even number of carbon atoms? Explain with the help of biosynthetic pathway. | 06 |
| | (b) What are photosensitizing agents? Write a brief note on their use. | 05 |
| | (c) Write a note on widely used herbicide. | 05 |
| Q.3 | (a) Write the complete biosynthetic pathway of ephedrine. | 06 |
| | (b) Write a note on symptoms and effects of fungal toxins on human beings. | 05 |
| | (c) Enlist herbs and their uses which are essential ingredients of herbal cosmetics. | 05 |
| Q.4 | (a) Write detailed note on techniques used for studying biosynthetic pathways. | 06 |
| | (b) Enlist herbs used for skin care cosmetic products. Give one formula for preparing skin care product. | 05 |
| | (c) Write a note on spirulina. | 05 |
| Q.5 | (a) Differentiate between two plants used under the name of shankpushpi. | 06 |
| | (b) Write a detailed note on “tridosha theory”. | 05 |
| | (c) Describe morphology and draw well labelled diagrams of morphology and microscopy of nagod. | 05 |
| Q.6 | (a) Write detailed Pharmacognosy of all species used under the name of rasna. | 06 |
| | (b) Write stepwise method of preparation of bhasma. | 05 |
| | (c) Write a brief history and general concept of treatment of homeopathic system of medicine. | 05 |
| Q.7 | (a) Write biological source, chemical constituents and uses of: | 06 |
| | i) Shirish | |
| | ii) Dhatakpushpa | |
| | iii) Galo | |
| | (b) Write method of preparation of ghrita. | 05 |
| | (c) Enlist parameters used for the evaluation of ayurvedic formulations.
Write a note on ash values. | 05 |