

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

Subject Code: BP812TT**Date:06/06/2022****Subject Name: Dietary Supplements and Nutraceuticals****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) Define Nutraceuticals and Classify them in detail. | 06 |
| | (b) Narrate in brief health benefits of Ginseng. | 05 |
| | (c) Write a note on Phytoestrogens as a nutraceuticals. | 05 |
| Q.2 | (a) Discuss chemistry & medicinal benefits of Flavonoids in detail. | 06 |
| | (b) Discuss in brief role of various minerals in human health. | 05 |
| | (c) Describe about dietary fibers as functional food ingredients. | 05 |
| Q.3 | (a) Describe occurrence, chemistry & medicinal benefits of Diallyl sulphides & Allyl trisulfide. | 06 |
| | (b) Write a note on Resveratrol as a nutraceuticals. | 05 |
| | (c) Give any five examples of adulteration in common food ingredients. | 05 |
| Q.4 | (a) Discuss in brief damaging reactions of free radicals on lipids & proteins. | 06 |
| | (b) Write a note on beverages as functional foods. | 05 |
| | (c) Discuss in detail a role of nutraceuticals for management of obesity. | 05 |
| Q.5 | (a) Write about role of free radicals in Diabetes mellitus & Inflammation. | 06 |
| | (b) Write a note on synthetic antioxidants. | 05 |
| | (c) Discuss in detail Prebiotics & Probiotics. | 05 |
| Q.6 | (a) Discuss in detail Vitamin C & Vitamin E as an antioxidants. | 06 |
| | (b) Describe a role of free radicals in kidney damage & muscle damage. | 05 |
| | (c) Discuss the effects of processing & storage on the potential of nutraceuticals. | 05 |
| Q.7 | (a) Write a note on Pharmacopoeial specifications for dietary supplements. | 06 |
| | (b) Give biological source, chemical nature, medicinal uses and health benefits of Spirulina. | 05 |
| | (c) Write a note on maternal and child nutrition in detail. | 05 |
