

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Ph. SEMESTER– VIII EXAMINATION –WINTER -2022

Subject Code: BP812TT**Date: 28/12/2022****Subject Name: Dietary Supplements & Nutraceuticals****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 & classify Nutraceuticals in detail with examples. | 06 |
| | (b) Write about nutraceuticals and dietary supplements used for management of cancer. | 05 |
| | (c) Write a note on prebiotics & probiotics. | 05 |
| Q.2 | (a) Describe the role of free radical in initiation and progression of inflammation and kidney damage. | 06 |
| | (b) Explain the role of complex carbohydrates as functional foods along with examples. | 05 |
| | (c) Write a note on sulphur compounds as nutraceuticals. | 05 |
| Q.3 | (a) Discuss occurrence, chemical nature medicinal benefits of Carotenoids. | 06 |
| | (b) Write the sources, marker compounds, medicinal uses and health benefits of flax seeds. | 05 |
| | (c) Explain the effects of processing & storage conditions on nutraceuticals. | 05 |
| Q.4 | (a) Enlist various endogenous and exogenous antioxidants. Write the biological role of superoxide dismutase. | 06 |
| | (b) What are the Sources and functions of proteins as functional foods? | 05 |
| | (c) Write the sources, marker compounds, medicinal uses and health benefits of Spirulina. | 05 |
| Q.5 | (a) Explain the process of free radicals mediated damage to lipids. | 06 |
| | (b) Write in detail about the Nutraceuticals and dietary supplements used in maternal and child nutrition. | 05 |
| | (c) Describe role of Ascorbic acid & Tocopherols as an anti-oxidants. | 05 |
| Q. 6 | (a) Discuss chemical nature & medicinal benefits of Phytoestrogens. | 06 |
| | (b) What are dietary fibres? Explain their importance as functional foods. | 05 |
| | (c) Write the mode of action and biological uses of catalase and glutathione. | 05 |
| Q.7 | (a) Describe beverages as functional foods. | 06 |
| | (b) Write a note on regulatory aspects of FSSAI on food safety. | 05 |
| | (c) Write a note on free radicals theory of ageing. | 05 |
