

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

Subject Code: 2270008**Date: 15/06/2022****Subject Name: 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) What are the health foods? Write a note on dietary fibers. | 06 |
| | (b) Describe biological sources and importance of vegetables and milk in human health. | 05 |
| | (c) Discuss on various health benefits of milk and dairy products. | 05 |
| Q.2 | (a) What are nutraceuticals? Describe historical perspective, classification and scope of nutraceuticals. | 06 |
| | (b) Discuss relation of nutraceutical science with other sciences. | 05 |
| | (c) Discuss current trend in nutraceutical industry. | 05 |
| Q.3 | (a) Explain global regulatory agencies and bodies for Nutraceuticals. | 06 |
| | (b) Discuss cGMP guideline for Nutraceuticals. | 05 |
| | (c) Explain packaging and labeling requirements for nutraceuticals products. | 05 |
| Q.4 | (a) Describe names, sources, active constituents and role of bioavailability enhancers. | 06 |
| | (b) Discuss role of different herbal beverages and drinks used for human health. | 05 |
| | (c) Write a note on Ginseng as health food. | 05 |
| Q.5 | (a) Explain DSHEA in detail. | 06 |
| | (b) Write a note on spirulina and lycopene as food supplement. | 05 |
| | (c) Discuss applied aspects of Nutraceutical science. | 05 |
| Q.6 | (a) Describe biological sources, active constituents and importance of nutraceuticals, green tea and flax seeds in human health. | 06 |
| | (b) Give biological sources, active constituents and importance of nutraceuticals, lycopene and chlorophyll in human health. | 05 |
| | (c) Discuss biological sources, active constituents and importance of nutraceuticals, grape products and proteins in human health. | 05 |
| Q.7 | (a) Write a note on permission enhancer's of drugs from herbal origin with suitable examples. | 06 |
| | (b) Explain toxicity studies and regulatory guidelines for nutraceuticals. | 05 |
| | (c) Discuss in detail about herbal health drinks. | 05 |
