

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Pharm. – SEMESTER VII • EXAMINATION – WINTER -2020

Subject Code: 2270008**Date: 16/01/2021****Subject Name: NUTRACEUTICALS****Time: 10:30AM To 12:30PM****Total Marks: 54****Instructions:**

1. Attempt any **THREE** questions from Q-1 to Q-6.
2. Q.7 is compulsory to attempt.
3. Make suitable assumptions wherever necessary.
4. Figures to the right indicate full marks.

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|------------|-----|---|-----------|
| Q.1 | (a) | What are nutraceuticals? Describe Historical perspective and scope of nutraceuticals | 06 |
| | (b) | Discuss regulatory guidelines for nutraceutical products. | 05 |
| | (c) | Write a note on health benefit of chlorophyll. | 05 |
| Q.2 | (a) | Discuss biological source and importance of various dietary fibers used to cure human health. | 06 |
| | (b) | Write in detail health benefit of Garlic. | 05 |
| | (c) | Write a note on energy drinks. | 05 |
| Q.3 | (a) | Give guidelines for toxicity studies for nutraceuticals. | 06 |
| | (b) | Describe packaging strategies of nutraceutical products. | 05 |
| | (c) | Describe in detail "Ginseng as a nutraceuticals." | 05 |
| Q.4 | (a) | Discuss about various sourcing information of various nutraceuticals through web data mining. | 06 |
| | (b) | Give the difference between prebiotics and probiotics by giving suitable examples. | 05 |
| | (c) | Write a note on DSHEA act. | 05 |
| Q.5 | (a) | Discuss active constituents of six nutraceutical remedies for arthritis and bronchitis. | 06 |
| | (b) | Describe different botanicals used in the treatment of ulcers. | 05 |
| | (c) | Discuss in detail role of various beans in human health. | 05 |
| Q.6 | (a) | Narrate in brief about role of biological enhancers as nutraceuticals. | 06 |
| | (b) | Describe biological sources and importance of vegetables and milk in human health. | 05 |
| | (c) | Describe role of Lycopene and carnitine in health benefits. | 05 |
| Q.7 | (a) | Describe various food preparations used in circulatory problems. | 06 |
| | | OR | |
| | (a) | Narrate in brief health benefits of Linseed. | 06 |
| | | OR | |
| | (a) | Describe in detail global regulatory agencies and bodies for nutraceuticals in different countries. | 06 |
