

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B. Pharm. - SEMESTER-7 • EXAMINATION – SUMMER -2018**

**Subject Code: 2270008****Date: 01/06/2018****Subject Name: Nutraceuticals****Time: 02:30 PM TO 05:30 PM****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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|-------------|---|-----------|
| <b>Q.1</b>  | (a) Define Nutraceuticals. Classify it with suitable examples.                              | <b>06</b> |
|             | (b) Discuss current trend in Nutraceutical industry.  | <b>05</b> |
|             | (c) Write a note on Ginseng as health food.   | <b>05</b> |
| <b>Q.2</b>  | (a) Explain DSHEA in detail.  | <b>06</b> |
|             | (b) What are the health foods? Write a note on dietary fibers.                              | <b>05</b> |
|             | (c) Discuss cGMP guideline for Nutraceuticals.  | <b>05</b> |
| <b>Q.3</b>  | (a) Discuss relation of Nutraceutical Science with other Sciences.                          | <b>06</b> |
|             | (b) Discuss probiotics and prebiotics.  | <b>05</b> |
|             | (c) Discuss on various health benefits of milk and dairy products.                          | <b>05</b> |
| <b>Q.4</b>  | (a) Explain the role of nutraceuticals in Osteoporosis and ulcers.                          | <b>06</b> |
|             | (b) Explain the role of nutraceuticals in hypoglycaemia and arthritis.                      | <b>05</b> |
|             | (c) Give sources and discuss health effects of capsicum annum and mustards in human health. | <b>05</b> |
| <b>Q.5</b>  | (a) Write a note on flaxseed, Soy proteins and soy isoflavones as nutraceutical.            | <b>06</b> |
|             | (b) Write a note on lecithin and mushroom extract as nutraceutical.                         | <b>05</b> |
|             | (c) Write a note on melatonin and grape products as nutraceutical.                          | <b>05</b> |
| <b>Q. 6</b> | (a) Write short note on Herbal beverages and drinks as health drink.                        | <b>06</b> |
|             | (b) Write a note on bio-availability enhancer.  | <b>05</b> |
|             | (c) Explain packaging and labeling requirements for nutraceuticals products.                | <b>05</b> |
| <b>Q.7</b>  | (a) Discuss nutraceutical remedies for Neurological disorder.                               | <b>06</b> |
|             | (b) Write a note on spirulina and lycopene as food supplement.                              | <b>05</b> |
|             | (c) Write a note on Garlic and Fish oil as health food.                                     | <b>05</b> |

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