

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.PHARM - SEMESTER- 7 EXAMINATION – SUMMER -2019**

**Subject Code: 2270008****Date: 20-05-2019****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) Discuss on Historical prospective and scope & future prospects of Nutraceuticals.              | <b>06</b> |
|             | (b) Give the classification of Nutraceuticals and discuss current market trends of Nutraceuticals. | <b>05</b> |
|             | (c) Write note on source of Nutraceuticals with suitable examples.                                 | <b>05</b> |
| <b>Q.2</b>  | (a) Write a note on Soy proteins and soy isoflavons as Nutraceutical supplements in human health.  | <b>06</b> |
|             | (b) Discuss the role of Green tea and lycopene in human health                                     | <b>05</b> |
|             | (c) Write a short not on followings(Any Two)                                                       | <b>05</b> |
|             | i. Lecithin    ii. Flaxseed    iii. Grape products    iv. Spirulina                                |           |
| <b>Q.3</b>  | (a) Discuss on Bio-availability enhances of herbal origin with suitable examples.                  | <b>06</b> |
|             | (b) Write a note on labeling requirement of various Nutraceutical products.                        | <b>05</b> |
|             | (c) Write brief note on DSHEA act.                                                                 | <b>05</b> |
| <b>Q.4</b>  | (a) Write a not on various food remedies and nutritional requireemnt in treatment liver disorders. | <b>06</b> |
|             | (b) Discuss various food remedies beneficial for the management of Nephrological disorders.        | <b>05</b> |
|             | (c) Write a short note on Nutritional food remedies on followings (Any Two)                        | <b>05</b> |
|             | i. Hypoglycemia    ii. Psoriasis    iii. Brochitis                                                 |           |
| <b>Q.5</b>  | (a) Write a note on regulatory requirement of toxicity study on Nutraceutical products.            | <b>06</b> |
|             | (b) Discuss the health effect of common Ginseng and Fish oils.                                     | <b>05</b> |
|             | (c) Write a note on Herbal Health Drinks.                                                          | <b>05</b> |
| <b>Q. 6</b> | (a) Explain the term Prebiotics and Probiotics. Write a brief note on it.                          | <b>06</b> |
|             | (b) Discuss the various benefits of Milk and dairy products as functional foods.                   | <b>05</b> |
|             | (c) Write a note on Dietary fibers and cereals as health food.                                     | <b>05</b> |
| <b>Q.7</b>  | (a) Write a short note on cGMP requirements of Nutraceutical products.                             | <b>06</b> |
|             | (b) Write a note on food remedies used in following disease (Any one)                              | <b>05</b> |
|             | i. Arthritis    ii. Circulatory problems                                                           |           |
|             | (c) Discuss on health effect of Common beans and Garlic.                                           | <b>05</b> |

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