

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM – SEMESTER – 7- EXAMINATION –WINTER - 2018

Subject Code: 2270008**Date: 28/11/2018****Subject Name: Nutraceuticals****Time: 10:30 AM TO 01:30 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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| Q.1 | (a) Define Health supplements. Discuss about need and scope of supplements. | 06 |
| | (b) Discuss about Botanicals used as Antidiabetics. | 05 |
| | (c) Write a note on role of Green tea as nutraceutical supplements. | 05 |
| Q.2 | (a) Discuss about current market trend in nutraceutical industry. | 06 |
| | (b) Enlist and discuss Nutraceuticals used as Hepatoprotectives. | 05 |
| | (c) Mention about Global regulatory agencies and bodies for Nutraceuticals. | 05 |
| Q.3 | (a) Explain nutritional content of Fish oils and Citrus fruits. | 06 |
| | (b) Give sources, chemical constituents and health benefits of spirulina. | 05 |
| | (c) Explain in brief about labeling and claims for nutraceuticals. | 05 |
| Q.4 | (a) Describe in detail “Vegetables as Functional food”. | 06 |
| | (b) Explain medicinal effects and health benefits of Glucosamine. | 05 |
| | (c) Explain nutraceutical remedies in Cardio vascular disease | 05 |
| Q.5 | (a) Write a note on health benefits of Capsicum and grape Products. | 06 |
| | (b) Write notes on piperine and cow urine as bio-availability enhancers. | 05 |
| | (c) Differentiate in between Soluble and Insoluble Fibres. | 05 |
| Q. 6 | (a) Discuss the role of Probiotics and Prebiotics. | 06 |
| | (b) Write a note on current Good Manufacturing Practices for nutraceuticals. | 05 |
| | (c) Describe about Energy drinks of natural origin. | 05 |
| Q.7 | (a) Explain in brief Health benefits of Lycopene and Chlorophyll. | 06 |
| | (b) Discuss about sections of DSHEA act for Nutraceuticals. | 05 |
| | (c) Discuss role of health supplements in Osteoporosis | 05 |
