

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER- 7 EXAMINATION – WINTER -2019**Subject Code: 2270008****Date: 28-11-2019****Subject Name: Nutraceuticals****Time: 10:30AM TO 01:30PM****Total Marks: 80****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Define nutraceuticals. Give sources of nutraceutical. Discuss scope and future prospects of the nutraceutical. **06**
- (b) Discuss relation of nutraceutical science with other sciences. Discuss current trend in nutraceutical industry. **05**
- (c) Discuss packing and labeling strategies for the nutraceuticals. **05**
- Q.2** (a) Give names, sources and active constituents of any four nutraceutical remedies for common disorder like arthritis. **06**
- (b) Mention names, sources and active constituents of any three nutraceutical remedies for neurological disorders. **05**
- (c) Give names, sources and active constituents of any three nutraceutical for the disorder of liver. **05**
- Q.3** (a) Describe sources, active constituents and role of green tea, flax seed, soy proteins, in human health. **06**
- (b) Give sources, chemical nature and role of lecithin, lycopene and glucosamine in human health. **05**
- (c) Mention names, sources and active constituents of the bioavailability enhancer nutraceutical. **05**
- Q.4** (a) Write short notes on following nutraceuticals, **06**
1. Grape products
2. Chlorophyll
3. Melatonin
- (b) Describe sources and importance of dietary fibers, prebiotics and probiotics. **05**
- (c) Describe sources, active constituents and importance of common beans and garlic. **05**
- Q.5** (a) Describe sources, active constituents and importance of *Capsicum annum*, mustard and ginseng. **06**
- (b) Write a note on herbal beverages and drinks as health food, names and importance. **05**
- (c) Give sources and active constituents of two nutraceutical in each category which are useful as remedies in osteoporosis and psoriasis. **05**
- Q.6** (a) Discuss about toxicity studies and regulatory guidelines for nutraceutical products. **06**
- (b) Discuss about current good manufacturing practices regarding nutraceutical products. **05**
- (c) Discuss about global regulatory agencies and bodies for nutraceutical in different countries. **05**
- Q.7** (a) Discuss about sources, active constituents and importance of milk and dairy products, citrus fruits and fish oils as a health food. **06**
- (b) Give sources and active constituents any three nutraceutical which are useful in ulcers. **05**
- (c) What is the base to market the nutraceutical in the world? What is the difference between Ayurvedic drugs and nutraceuticals? **05**
