Seat No.: _____ Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.Pharm - SEMESTER–VII • EXAMINATION – SUMMER-2017

Subject Code: 2270008 **Date: 10/05/2017**
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.**

Q.1	**(a)**	Define Nutraceuticals, classify it illustrating suitable examples, and elaborate enzymes.	**06**
	(b)	Write a note on health food used in circulatory problems.	**05**
	(c)	Describe in detail health benefits of Garlic.	**05**
Q.2	**(a)**	Give historical aspects and development of Nutraceuticals.	**06**
	(b)	Give the differences between Probiotics and Prebiotics.	**05**
	(c)	Write a brief note on Dietary Fibers.	**05**
Q.3	**(a)**	Write about the botanicals used in prevention and treatment of Diabetes.	**06**
	(b)	Enumerate mechanism of action, advantages and methods of biopotentiation.	**05**
	(c)	Give a note on supplements used for prevention of Bronchitis.	**05**
Q.4	**(a)**	Explain about Nutraceuticals used as therapeutic agents in Liver disorders.	**06**
	(b)	Write note on counterfeit prevention in nutraceuticals emphasizing on – REID.	**05**
	(c)	Write notes on piperine and cow urine as bio-availability enhancers.	**05**
Q.5	**(a)**	Explain nutritional content of seafood.	**06**
	(b)	Describe in detail “Ginseng as a nutraceutical”.	**05**
	(c)	Write a note on health benefits of chlorophyll.	**05**
Q. 6	**(a)**	Give Guidelines for chronic toxicity studies of Nutraceuticals.	**06**
	(b)	Write salient features on plastic containers in Nutraceuticals.	**05**
	(c)	Write a note on health benefits of Flaxseed.	**05**
Q.7	**(a)**	Write a note on Current Good Manufacturing Practices for nutraceutical products.	**06**
	(b)	Discuss about the botanicals used in treatment of ulcer.	**05**
	(c)	Describe role of Taurine as an ingredient of Energy Drinks.	**05**

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