Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.PHARM – SEMESTER – VII • EXAMINATION – WINTER – 2015

Subject Code: 2270008 **Date: 16/12/2015**

Subject Name: Nutraceuticals

Time: 10.30 AM to 1.30 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. Explain its classification in detail.	**06**
	(b)	Enlist sources of nutraceuticals. Explain plant based source of nutraceuticals.	**05**
	(c)	Explain green tea as nutraceutical rich supplement.	**05**
Q.2	(a)	Explain nutraceutical uses of spirulina.	**06**
	(b)	Write in detail about soy protein and soy isoflavones in human health.	**05**
	(c)	Differentiate: Probiotics and Prebiotics	**05**
Q.3	(a)	Give an account on soluble dietary fibers.	**06**
	(b)	Explain Garlic as a functional food.	**05**
	(c)	Write about the health benefits of sea foods and fish oil.	**05**
Q.4	(a)	Explain DSHEA act in detail.	**06**
	(b)	Write in detail about regulatory guidelines for nutraceutical products.	**05**
	(c)	Write a note on lecithin and chlorophyll as nutraceutical rich supplement.	**05**
Q.5	(a)	Explain the data mining tools in nutraceuticals information.	**06**
	(b)	Explain the role of nutraceuticals in skin disorders with reference to psoriasis.	**05**
	(c)	Write a note on cGMP in nutraceutical products.	**05**
Q. 6	(a)	Explain plant based nutraceuticals as bioavailability enhancers.	**06**
	(b)	Write a note on nutraceutical interventions in joint disorders.	**05**
	(c)	Explain packaging strategies for the nutraceutical products.	**05**
Q.7	(a)	Give an account for nutraceuticals in the management of gastrointestinal disorders.	**06**
	(b)	Discuss the scope and future prospectus of nutraceuticals.	**05**
	(c)	Give a concept note on health drink.	**05**

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