Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE – SEMESTER V • EXAMINATION – WINTER – 2012

Subject code: 151401 **Date: 16-01-2013**

Subject Name: Design and Formulation of Foods

Time: 02:30 pm to 05:00 pm **Total Marks: 70**

Instructions:

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

Q.1	**(a)**	Define following terms 1. Menu Planning 2. Neutraceutical 3. Infant formula 4. Colostrum 5. RDA 6. Enrichment	**06**
	(b)	Scientifically justify following statements. a) Black tea is considered as functional food. b) LDL cholesterol is considered as good cholesterol while HDL as bad cholesterol. c) The proteins from animal sources are superior in quality than proteins from plant sources d) Combination of cereals and pulses is recommended in daily diet	**08**
Q.2	**(a)**	Explain why mother's milk is considered as the most suitable diet for an infant?	**07**
	(b)	Describe the nutritional value of legumes and pulses	**07**
		OR	
	(b)	Write in detail about processed products from rice	**07**
Q.3	**(a)**	Enlist different types of anti nutritional factors found in food and describe any two in detail	**07**
	(b)	State and describe various nutritional requirements for an athletic person	**07**
		OR	
Q.3	**(a)**	Describe the principles of menu planning process.	**07**
	(b)	What are the advantages of fermented food and give a note on fermented dairy products	**07**
Q.4	**(a)**	Write in detail about egg white proteins	**07**
	(b)	What do you mean by Omega -3 and Omega-6 fatty acids? Give significance of Omega -3 fatty acids in cardiovascular disease.	**07**
		OR	
Q.4	**(a)**	Enlist specific points to be considered while planning a diet.	**07**
Q.4	**(b)**	What are the nutritional requirement of preschool going children	**07**
Q.5	**(a)**	State and describe various toxins formed during processing of foods	**07**
	(b)	Give the nutritional requirements of elderly people and suggest a suitable diet for them with justification.	**07**
		OR	
Q.5	**(a)**	Write a short note on following 1. Probiotics 2. Dietary fibers	**07**
	(b)	What is therapeutic diet? Write in detail about diet for diabetic patient.	**07**

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