Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–V EXAMINATION – WINTER 2015

Subject Code: 151405 **Date: 14/12/2015**

Subject Name: Food Nutrition & Health (Institute Elective-II)

Time: 10:30am to 1:00pm **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)**	Discuss briefly the role of carbohydrate, protein, fats in food with respect to human body.	**07**
	(b)	Write the importance of Food Guide Pyramid and explain the various food groups placed it.	**07**
Q.2	**(a)**	Draw a diagram to depict food digestion system in human being.	**07**
	(b)	How microorganisms can be controlled so as to prevent food poisoning	**07**
		OR	
	(b)	What is adulteration of food? Explain its causes.	**07**
Q.3	**(a)**	What is Basal Metabolism Index (BMI)? State the factors affecting BMI.	**07**
	(b)	What are Vitamins? Explain any two vitamin with respect to its sources, functions and deficiency diseases.	**07**
		OR	
Q.3	**(a)**	What are anti-nutritional factors? Discuss any four anti-nutritional factors naturally present in food.	**07**
	(b)	Write short notes on: i) Kwashiorkor ii) Food fortification	**07**
Q.4	**(a)**	Discuss functions, deficiency symptoms and sources of vitamin D in human nutrition.	**07**
	(b)	Write down the dietary guidelines for pregnant and lactating women.	**07**
		OR	
Q.4	**(a)**	Explain the various chemical tests for detection of adulteration in food sample.	**07**
	(b)	What do you mean by Recommended Dietary Allowances (RDA)? Discuss factors affecting RDA.	**07**
Q.5	**(a)**	Discuss in detail the classification of food.	**07**
	(b)	What are minerals? Explain their role in reference to wellbeing of human health.	**07**
		OR	
Q.5	**(a)**	What are carbohydrates? Discuss the classification of carbohydrates.	**07**
	(b)	Explain in detail food infection and intoxication	**07**

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