

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-V- EXAMINATION – SUMMER 2016****Subject Code: 151405****Date: 17/05/2016****Subject Name: Food Nutrition & Health (Institute Elective - II)****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) Discuss briefly the role of various nutrients present in food with respect to human body. **07**
- (b) Write short notes on: **07**
- i) Kwashiorkor
- ii) Food fortification
- Q.2** (a) Explain the process of food digestion in human being. **07**
- (b) Explain control measures to prevent food poisoning caused by microorganisms. **07**
- OR**
- (b) What is adulteration of food? Explain its causes. **07**
- Q.3** (a) What is Basal Metabolism Rate (BMR)? State the factors affecting BMR. **07**
- (b) What are minerals? Explain any one mineral 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 the importance of Food Guide Pyramid and explain the various food groups placed in it. **07**
- Q.4** (a) Discuss functions, deficiency symptoms and sources of vitamin D in human nutrition. **07**
- (b) Write down the dietary guidelines for infants and pregnant 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) Discuss the nutritive value of eggs and egg products. **07**
- OR**
- Q.5** (a) What are carbohydrates? Discuss the classification of carbohydrates. **07**
- (b) Explain in detail food infection and intoxication **07**
