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GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-IV (New) EXAMINATION – WINTER 2015

Date: 01/01/2016 Subject Code:2141408 **Subject Name: Fundamentals of Food Nutrition** Time: 2:30pm to 5:00pm **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 **07** human body. (b) Write the importance of Food Guide Pyramid and explain the various food **07** groups placed it. **Q.2** (a) How the proteins get affected during heat processing of food products? 07 (b) What is basal metabolism? Explain the different factors affecting Basal 07 Metabolism Rate. OR (b) What do you mean by Recommended Dietary Allowances (RDA)? Discuss **07** factors affecting RDA. Give the classification of proteins and Explain the functions of proteins. 0.3 07 (b) What are Vitamins? Explain any two vitamin with respect to its sources, 07 functions and deficiency diseases. OR (a) Explain the types and role of dietary fibers in our body. 07 0.3 07 **(b)** Write short notes on: i) Kwashiorkor ii) Food fortification 0.4 (a) What are the factors affecting digestion? Explain the protein digestion. 07 (b) Write down the nutrients included in 11 food groups based on nutritive value **07** Describe the classification of food on the basis of physiological functions of **07** 0.4 (a) food. (b) Discuss functions, deficiency symptoms and sources of vitamin B12 in human 07 nutrition. (a) Draw a neat diagram to depict glycolysis **07 Q.5** (b) What are minerals? Explain their role in reference to wellbeing of human **07** health. OR (a) Give the classification of vitamins on the basis of solubility. State the functions Q.5 **07** and deficiency symptoms of Vitamin-C. **(b)** What are the factors affecting digestion? Explain the protein digestion. 07
