

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATION- 2023

B.Tech-VII Semester (CSE/IT/ECE/CE)

COURSE CODE (CREDITS): 19B1WBT732 (3)

MAX. MARKS: 25

COURSE NAME: Food Nutrition & Health Care

COURSE INSTRUCTORS: Dr. Udayabanu

MAX. TIME: 1 Hour 30 Minutes

Note: (a) All questions are compulsory.

(b) Marks are indicated against each question in square brackets.

(c) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems

1. Structurally differentiate carbohydrates, lipids and proteins. What are essential, non essential and conditional aminoacids? Write any two roles of protein in human body function. [5 Marks]
2. While selecting a protein supplement, how would you assess the quality of the protein? Does eating too much protein or too little protein affect human health? Comment [5 Marks]
3. Discuss about the function and role of following major minerals. Also explain its deficiency and toxicity states.
 - a. Calcium [2 Marks]
 - b. Potassium [2 Marks]
 - c. Sulphur [1 Marks]
4. Water compartments inside and outside cells maintain a balanced distribution of total body water. State the functions of body water and explain the regulation of body water by the organ systems. [5 Marks]
5. Vitamins are required by the body in small amounts for a variety of essential processes. What are fat soluble vitamins? Give a detailed note on fat soluble vitamins. [5 Marks]