

D. Teel  
2nd Sem.  
2018

**B.TECH FOOD TECHNOLOGY**  
**III Semester Examination 2018**  
**Course Code- BFTC-303**  
**Course Title –Nutrition and Dietetics**

**TIME: 3 hours**

**Max. Marks: 70**

**Note:** 1. It is compulsory to answer all the questions of Section-A.  
2. Answer any four questions in Section- B.

**Section-A (5\*6=30)**

Q1. (a) What are the special nutrition needs during lactation?(3M)

(b) Write a short note on food metabolism? (3M)

Q2. (a) Define RDA and enlist some important points to be considered while setting RDA for Indians? (3M)

(b) What are nutrients? Enlist the three important functions of nutrients? (3M)

Q3. (a) Briefly explain the role of Vitamin D as a micronutrient in the human body? (3M)

(b) Write a short note on diet in disease conditions of renal problems? (3M)

Q4. (a) Write a short note on therapeutic nutrition? (3M)

(b) NIN stands for? (1M)

(c) Define the metabolic pathway in humans? (2M)

Q5. (a) Define in-born errors of metabolism and explain any one of the in-born errors of metabolism? (3M)

(b) Write a short note on nutraceuticals and their role in human health? (3M)

**Section- B (4\*10=40)**

Q1. Explain the process of digestion in detail? (10M)

Q2. Enlist the various sources of food nutrients and explain the lipids as source of macronutrient in diet? (10M)

Q3. Write short notes on the following (any 4): (10M)

- a) Role of micronutrients in diet.
- b) Anemia and its therapeutic diet.
- c) GI tract problems and its therapeutic diet.
- d) Jaundicedisease and its therapeutic diet.
- e) Diet modification for premature infants, adolescents and aged people.
- f) The different enzymes used during the digestion process.

Q4. What is bomb calorimeter draw the diagram and define in detail? (10M)

Q5. Calculate the Total daily energy expenditure of a resting female of 45 years of age with a height of 5 feet and 2 inches and weight of 60 kg and has gone though a surgery? (10M)

Q6. Draw Glycolysis and Krebs cycle pathways? Give their ATP account? (10M)