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Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (Fashion Technology) (2018 Batch) (Sem.-4)

**FOOD BIOCHEMISTRY AND NUTRITION**

Subject Code : BTFT-401

M.Code : 77616

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTIONS TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

**SECTION-A****1. Write briefly :**

- a) What is Gaucher disease?
- b) What is carbohydrate metabolism disorder?
- c) What do you understand by the term protein energy malnutrition?
- d) What are Functional Foods?
- e) What is the purpose of RDI?
- f) How does basal metabolism affect energy balance?
- g) Elaborate Food Fortification.
- h) Write the major function and final products of Krebs Cycle.
- i) What is the significance of PER in food?
- j) Why calorific value of fats is higher than that of glucose?

### SECTION-B

2. Describe Induced-fit hypothesis for enzyme specificity.
3. What are excessive consumption consequences of fat?
4. Distinguish between soluble and insoluble fibre.
5. Define Nutrition and brief the methods used for nutritional assessment.
6. Explain the role of proteins in nutrition.

### SECTION-C

7. Define Essential Amino Acid. Explain protein digestion metabolism in human body.
8. Derive Michaelis - Menten equation for enzyme kinetics. State the significance of Lineweaver - Burk plot.
9. Describe biosynthesis of fatty acids and Explain why fatty acid synthesis is important?

**NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.**