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**BCS 453**

**II Semester M.Sc. Examination, September/October 2022**

**BIOCHEMISTRY**

**Nutritional Biochemistry**

Time : 3 Hours

Max. Marks : 70

1. Answer **any ten** of the following : **(10×2=20)**

- a) Define dietary nutrition. Give its significance.
- b) What are dietary fibers ? Give examples.
- c) What are essential fatty acids ?
- d) What are the symptoms of Marasmus ?
- e) Brief the importance of water as a nutrient.
- f) What is nitrogen balance ?
- g) Give a dietary classification of carbohydrates.
- h) How chemical score defines for proteins ?
  - i) What is dietary supplementation ?
  - j) What is BMR ?
- k) What is balanced diet ?
  - l) Mention any two foods that interact with drugs.

Answer **any five** of the following : **(5×10=50)**

2. a) Write on the mechanism and nutritional significance of Specific Dynamic Action (SDA) of foods. **(5+5)**
  - b) Give an account on methods for determining nutritive value of proteins.
3. a) Describe the dietary sources and essentiality of carbohydrates as energy nutrient. **(5+5)**
  - b) Give a note on fat soluble vitamins, A and D.

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4. a) Explain a method to measure BMR. **(6+4)**  
b) Add factors affecting BMR.
5. a) Describe the proximate analysis of food. **(5+5)**  
b) Write sources, requirements, functions, and deficiency of iron and zinc.
6. a) Explain pharmacological aspects of food-drug interaction. **(6+4)**  
b) Differentiate the physiological energy value from calorific value for foods.
7. a) Give an account on nutrition for diabetes patients. **(5+5)**  
b) Explain the nutritional importance of proteins and their deficiency disorders.
8. a) Explain the hyper-vitaminosis and effects. **(5+5)**  
b) Commemorate the concept 'right kind of food ensure good health'.
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