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BCE 457

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

BIOCHEMISTRY

Biochemistry in Day to Day Life (Open Elective)

Time : 3 Hours

Max. Marks : 70

Note : Answer Part – **A** and **any five** questions in Part – **B**.

PART – A

1. Answer **any ten** of the following :

(10×2=20)

- a) What are dietary fibres ? Mention their importance.
- b) What are invisible fats ? Give an example.
- c) What are essential amino acids ? Give an example.
- d) Define xerophthalmia.
- e) Enlist the essential fatty acids.
- f) What is specific dynamic action of food ?
- g) Enlist the special properties of water.
- h) What are antivitamins ? Mention their importance.
- i) Mention any two sources of carbohydrates.
- j) What is hypervitaminosis ?
- k) What is BeriBeri ? Name the vitamin deficiency leads to BeriBeri ?
- l) What is fluorosis ?

P.T.O.



PART – B

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

2. a) Explain the factors affecting water balance.
b) Discuss the essentiality of carbohydrates. **(5+5=10)**
 3. a) What is Basal Metabolic Rate (BMR) ? Enlist the factors affecting BMR.
b) Describe the causes, symptoms and treatment of Kwashiorkor. **(5+5=10)**
 4. a) Discuss the dietary formulations for pregnancy and lactating mother.
b) Give an account on the effect of drugs on food and nutrition. **(5+5=10)**
 5. a) Explain in detail about the nutritional classification of proteins.
b) Explain dietary formulation for children and old age people. **(5+5=10)**
 6. a) Explain the biochemical role of calcium and iron.
b) Write a note on dietary sources, daily requirements and deficiency symptoms of vitamin D. **(5+5=10)**
 7. a) Describe the biochemical importance of any three micronutrients.
b) Explain dietary sources, functions, daily requirements and deficiency symptoms of vitamin C. **(5+5=10)**
 8. a) Write a brief note on vitamin like compounds.
b) Give an overview of essential nutrients and their classification. **(5+5=10)**
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