

Faculty of Science
B. Sc (Applied Nutrition & Public Health) I-Year, CBCS –II Semester Regular
Examinations -June/July, 2022
PAPER: Nutritional Biochemistry-II

Time: 3 Hours

Max Marks: 80

Section-A

- I. Answer any *eight* of the following questions (8x4=32 Marks)
1. Vitamin D
 2. Thiamine
 3. Pernicious anaemia
 4. Calcium
 5. Iron
 6. Zinc
 7. Electrolyte
 8. Hyperkalemia
 9. Water intoxication
 10. Hypothyroidism
 11. Competitive enzyme inhibition
 12. Insulin

Section-B

- II. Answer the following questions (4x12=48 Marks)
- 13.(a) Define fat soluble vitamins and classify them. Write their sources and functions.
(OR)
(b) Write about the sources, functions of vitamin C and explain about the symptoms caused due to its deficiency.
- 14.(a) What are macro minerals? Write their importance in diet management.
(OR)
(b) Write about the sources, functions and dietary requirements of Iodine and the abnormalities seen due to its deficiency.
- 15.(a) Elucidate in detail about Japanese Water Therapy.
(OR)
(b) Write about the abnormalities caused due to unregulated water uptake in our body.
- 16.(a) Define enzymes. Classify them and write their properties.
(OR)
(b) What are endocrine glands? Write about their secretions and importance.

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Section-AI. Answer any *eight* of the following questions (8x4=32 Marks)

1. Polysaccharides
2. RDA of lipids
3. Unsaturated fatty acids
4. Glutamic acid
5. Proteins
6. Non-essential amino acids
7. Vitamin D
8. Vitamin B5
9. Iron
10. Enzymes
11. Water balance in body
12. Enzyme inhibitors

Section-B

II. Answer the following questions (4x12=48 Marks)

13. (a) Write about the properties, functions and dietary sources of carbohydrates

(OR)

(b) Explain the mechanism of beta oxidation pathway of fatty acid synthesis

14. (a) Write about the concept of i) protein efficiency ratio ii) net protein utilization to evaluate protein quality

(OR)

(b) What are the various dietary sources of amino acids?

15. (a) What are the various water soluble vitamins? Explain

(OR)

(b) Explain the nutritional significance of various major minerals.

16. (a) Define enzymes. Classify them and write their properties.

(OR)

(b) Write about water and electrolyte balance in the body.
