

**FACULTY OF SCIENCE**  
B.Sc. (CBCS) I-Year (II-Semester) Regular Examinations, August-2023  
Applied Nutrition and Public Health-II  
(Nutritional Biochemistry)

Time: 3 Hours

Max Marks: 80

**SECTION-A**

(4x5 = 20 Marks)

Answer any Four questions from the following

1. Functions of Vitamin E.
2. Functions of Vitamin A.
3. Functions of Flourine.
4. Deficiency disorders of Iodine.
5. Water intoxication.
6. Hypernatremia.
7. Competitive inhibition.
8. Nomenclature of Enzymes.

**SECTION-B**

(4x15 = 60 Marks)

Answer all the following questions

9. (a) Explain the physiological functions, sources, RDA and deficiency disorders of Vitamin D.  
(OR)  
(b) Give an account on physiological functions, sources, RDA and deficiency disorders of Vitamin C.
10. (a) Write in detail about the functions, sources, requirements and deficiency disorders of calcium.  
(OR)  
(b) Discuss the role of Zinc and Selenium as antioxidants.
11. (a) Explain the water compartments in detail and add a note on the functions of water.  
(OR)  
(b) Discuss the Acid-Base imbalance in detail.
12. (a) Write in detail about the factors affecting the enzyme action.  
(OR)  
(b) Give an account on functions and disorders associated with insulin.