

**SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN  
(AUTONOMOUS)**

**(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)  
Chromepet, Chennai — 600 044.**

**M.Sc. - END SEMESTER EXAMINATIONS NOVEMBER - 2022**

**SEMESTER - III**

**20PNDCT3007 - Micronutrients**

**Total Duration : 2 Hrs 30 Mins.**

**Total Marks : 60**

**Section A**

Answer any **SIX** questions ( $6 \times 5 = 30$  Marks)

1. Illustrate the functions of Potassium.
2. Describe the recent research of micro mineral - Zinc.
3. Relate the Functions of Vitamin A with its deficiencies.
4. Describe the deficiency of thiamine and riboflavin.
5. Illustrate the recent researches of immuno nutrients and antioxidants.
6. Relate the role of Sodium and chloride.
7. Describe the deficiencies of Iodine.
8. Determine the role of antinutrients in nuts and oil seeds.

**Section B**

**Part A**

Answer any **TWO** questions ( $2 \times 10 = 20$  Marks)

9. Describe the food sources and deficiency of Iron.
10. Compute food sources, requirement and deficiency of Vitamin E and K.
11. Determine the Food sources, functions and deficiency of Vitamin C.
12. Justify the functions of functional foods.

**Part B**

Compulsory question ( $1 \times 10 = 10$  Marks)

13. Compute the functions, food sources, requirement and deficiency of Calcium.

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