

B.M.S COLLEGE FOR WOMEN AUTONOMOUS

BENGALURU – 560004 SEMESTER END EXAMINATION – SEPTEMBER 2023

B.Sc. Clinical Nutrition and Dietetics - 2nd Semester

ESSENTIALS OF MICRONUTRIENTS (NEP Scheme 2021-22 Onwards F+R)

Course Code: CND2DSC05 QP Code: 2044
Duration: 2 ½ Hours Max. marks: 60

Instruction: All parts are compulsory.

PART-A

I. Answer any FOUR of the following.

(4X2=8)

- 1. Enlist any two important sources of Vitamin C.
- 2. State any two important functions of folic acid.
- 3. Enumerate the effects of the deficiency of calcium.
- 4. What are the two important functions of Zinc?
- 5. Differentiate between intracellular and extracellular fluid.
- 6. Give any two important functions of sodium.

PART-B

II. Answer any FOUR of the following.

(4X5=20)

- 1. Briefly elucidate the importance of magnesium in human body.
- 2. Explain the role of selenium as an antioxidant and its importance in heart health.
- 3. Explain the clinical manifestations of Vitamin A deficiency.
- 4. Give a brief outline of the vitamin D deficiency disorders in adults.
- 5. What are the functions of water? Explain its distribution in the various body compartments.
- 6. Why is it important to maintain electrolyte balance in the body?

PART-C

III. Answer any FOUR of the following.

(4X8=32)

- 1. Explain the deficiency effects of any four trace elements.
- 2. Elaborate on the functions, deficiency and nutritional management of Vitamin K
- 3. Discuss the interaction of vitamins with other nutrients and its effects.
- 4. Explain the role of phosphorus and manganese in our body.
- 5. Discuss any two electrolytes explaining their sources and role in the composition of body fluids.
- 6. Elaborate on the imbalance of water and electrolytes in the body.
