

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

[BSCN 0523]

**MAY 2023
(FEBRUARY 2023 EXAM SESSION)**

Sub. Code: 4702

**B.Sc. (Nursing) DEGREE EXAMINATION
(Regulations for the candidates admitted from 2006-07 onwards)**

**FIRST YEAR
PAPER II – NUTRITION AND BIOCHEMISTRY
Q.P. Code: 664702**

Time : Three Hours

Maximum : 75 Marks

Answer Section A and Section B Separately

**SECTION - A
(NUTRITION)**

I. Elaborate on: (1 x 15 = 15)

1. Discuss the methods of Cooking in detail.

II. Write notes on: (4 x 5 = 20)

1. Recall the malnutrition effects of Carbohydrates.
2. Summarise the Vitamin A and Iodine prophylaxis programs.
3. Estimate the water deficiency dehydration.
4. Categorize the therapeutic diets for health issues.

III. Short answers on: (5 x 2 = 10)

1. Mention the RDA of Iron for all the age groups.
2. Outline the nutritional classification of amino acids.
3. Define types of food adulteration with suitable examples.
4. Enlist the sources of Fat Soluble Vitamins.
5. Define cis and trans fats.

**SECTION - B
(BIOCHEMISTRY)**

I. Elaborate on: (1 x 15 = 15)

1. Write the sources, RDA, Biochemical functions and deficiency manifestations of Vitamin C.

II. Write notes on: (1 x 5 = 5)

1. Write in detail about TCA cycle.

III. Short answers on: (5 x 2 = 10)

1. Name the Lipoproteins.
2. Define Immunoglobulin.
3. Name the Coenzymes of Riboflavin and Niacin.
4. Chlorophyll.
5. Normal value of Calcium, Magnesium, Sodium and Potassium.
