2010 Scheme

**First Year B.Sc Nursing Degree Supplementary Examinations
January 2024
Nutrition and Biochemistry**

Time: 3 Hours   **Max Marks: 75**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*
- *Write section A (32 Pages) and section B (32 Pages) in separate answer books. Do not mix up questions from section A and section B.*

Q P Code: 104010   **Section A – Nutrition**   **Marks: 50**
Essay   **(10)**

1. List the National Nutritional Programmes in India related to nutrition and explain the role of nurse in nutrition education   (6+4)

Short notes   **(5x5=25)**

2. Write the recommended dietary allowance of macronutrients for a 45-year-old adult and plan a day's diet
3. Discuss the safe food handling methods to prevent toxicity.
4. Maintenance of fluid and electrolyte balance
5. Functions of Calcium
6. Signs and symptoms of vitamin A deficiency

Answer Briefly   **(5x3=15)**

7. Enumerate the factors affecting Basal Metabolic Rate
8. Define Marasmus and Kwashiorkor
9. List the classification of foods.
10. List down three functions of Fats
11. Importance of dietary fibre

Q P Code: 105010   **Section B – Biochemistry**   **Marks: 25**

Essay   **(10)**
1. Describe the regulation of blood glucose in fasting state. Add a note on Diabetes Mellitus   (5+5)
Short notes   **(2x5=10)**
2. Classify Lipoproteins. Briefly describe the metabolism of lipoproteins
3. Write the biochemical defect, Clinical features and lab diagnosis for phenylketonuria.
Define the following   **(5x1=5)**
4. Mention any two enzymes elevated during myocardial infarction
5. Any two deficiency manifestation of Vitamin A
6. Write the normal blood pH and mention the buffer system involved in regulation of blood pH
7. Define clearance. Mention the formula to calculate creatinine clearance
8. Mention the transport and storage forms of iron

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