

2010 Scheme

Reg. No:

First Year B.Sc Nursing Degree Supplementary Examinations February 2025 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
Essay**

Section A – Nutrition

**Marks: 50
(10)**

1. Write down the sources, recommended daily allowances, biochemical functions and deficiency manifestations of vitamin D.

Short notes

(5x5=25)

2. Write down a balanced diet for an adolescent.
3. Digestion and absorption of fats
4. Regulation of water balance
5. Use of food additives and its principles
6. Functions of calcium

Answer Briefly

(5x3=15)

7. PEM
8. Prevention of Iron Deficiency Anaemia
9. Classification of carbohydrates
10. Essential Amino acids
11. Classification of food

**Q P Code: 105010
Essay**

Section B – Biochemistry

**Marks: 25
(10)**

1. Discuss the regulation of blood glucose level in fasting state. Mention the type I & II diabetes mellitus and the diagnostic criteria for diabetes mellitus (6+3+1)

Short notes

(2x5=10)

2. Explain the intestinal absorption of iron and the various factors regulating iron absorption.
3. Discuss the structure and functions of Immunoglobulins

Define the following

(5x1=5)

4. Name the provitamin form of Vitamin A. Mention the deficiency manifestations of Vitamin A
5. What are essential amino acids. Name any two essential amino acids
6. Name two clinically significant enzymes elevated in hepatic dysfunction
7. What is the normal blood pH. Write the most effective buffer present in plasma
8. Name the phospholipid act as lung surfactant
