

# 2010 Scheme

Reg. No: .....

## First Year B.Sc Nursing Degree Supplementary Examinations October 2023

### 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. Enlist sources, functions and deficiency of thiamine

(2+3+5)

**Short notes**

**(5x5=25)**

2. Discuss role of nutrition in maintaining health
3. Water balance
4. Explain moist heat methods of cooking
5. Dietary source and functions of potassium
6. Principles of menu planning

**Answer Briefly**

**(5x3=15)**

7. List dietary sources of protein
8. Classification of lipids
9. Body mass index
10. List the functions of carbohydrates
11. Integrated Child Development Scheme

**Q P Code: 105010**

**Section B – Biochemistry**

**Marks: 25**

**Essay**

**(10)**

1. Describe the formation and utilization of ketone bodies. Add a note on diabetic ketoacidosis

(5+5)

**Short notes**

**(2x5=10)**

2. Discuss the causes and laboratory findings in metabolic acidosis
3. Write about diagnostic and therapeutic applications of enzymes

**Define the following**

**(5x1=5)**

4. Bence-Jones protein
5. Mention two clinical conditions associated with deficiency of vitamin B<sub>1</sub>
6. Name two tests to assess the synthetic function of liver
7. What are heteropolysaccharides. Name the heteropolysaccharide that acts as anticoagulant
8. What is the normal serum calcium level. Write any two functions of calcium

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