

**First Year B.Sc Nursing Degree Supplementary Examinations  
October 2024**

**Nutrition and Biochemistry**

**(2016 Scheme)**

**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*
- *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: 114010**

**Section A – Nutrition**

**Marks: 50**

**Short Essay**

**(2x7= 14)**

1. Mention the classification of vitamins, explain the functions and deficiency effects of vitamin C (2+3+2)
2. Briefly explain nutritional programmes in India and the role of Nurse in vitamin A prophylaxis programme (5+2)

**Short Notes**

**(5x4=20)**

3. Factors affecting Basal metabolic rate
4. Functions of carbohydrates
5. Functions of vitamin A and vitamin D
6. What is PEM (Protein Energy Malnutrition) and explain the types of PEM
7. Discuss the distribution of body water

**Answer Briefly**

**(4x4=16)**

8. Food sources and deficiency of iron
9. Classification of foods
10. Explain the dry heat cooking methods
11. Methods of nutrition education

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**Q P Code: 115010**

**Section B – Biochemistry**

**Marks: 25**

**Short Essays**

**(2x5=10)**

1. Urea cycle
2. Oral glucose tolerance test

**Short notes**

**(2x3=6)**

3. Ketone body formation
4. Mitochondria

**Differentiate Between**

**(3x3=9)**

5. Aliphatic amino acids and Aromatic amino acids
6. Hepatic and Obstructive jaundice
7. Primary immune and Secondary immune response

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