

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

**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. Define BMR and explain the determination and factors affecting BMR
2. Explain the domestic methods of food preservation

**Short Notes****(5x4=20)**

3. Consequences of overconsumption of fats
4. Classification of protein
5. Discuss the energy requirement in different life stages
6. Factors to be considered during menu planning
7. Food groups

**Answer Briefly****(4x4=16)**

8. Brief the role of National Institute of Nutrition (NIN) in India
9. Food sources and deficiencies of calcium
10. List the methods for the assessment of nutritional status
11. Prevention of Food Adulteration Act (1954)

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**Q P Code: 115010****Section B – Biochemistry****Marks: 25****Short Essays****(2x5=10)**

1. Give detail significance of alanine aminotransferase (ALT)
2. Explain in detail on sub cellular organelles with neat diagram

**Short notes****(2x3=6)**

3. Chylomicron
4. Regulation of blood calcium

**Differentiate Between****(3x3=9)**

5. Bile pigment and Bile sat and give example
6. Hemolytic and Obstructive jaundice
7. Metabolic acidosis and Alkalosis

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