

**First Year B.Sc Nursing Degree Supplementary Examinations July 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. Classify lipids. Discuss in detail the digestion, absorption and storage of lipids.
2. Discuss in detail the RDA, Functions and deficiency manifestations of vitamin C

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

3. Vitamin A prophylaxis
4. Regulation of fluid and electrolyte balance
5. Balanced diet
6. Integrated child development scheme (ICDS)
7. Functions of calcium

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

8. Protein energy malnutrition
9. Prevention of Food Adulteration Act (PFA)
10. Essential amino acids
11. Body mass index

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

1. Classification of Amino acids-based on nutritional status and metabolic rate
2. Clinical significance of Transaminases

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

3. Catabolism of hemoglobin
4. Regulation of blood calcium

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

5. Hyperglycemia and Hypoglycemia
6. Essential and Nonessential fatty acid
7. Metabolic acidosis and Alkalosis

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