

**February 2012****[LA 1011]****Sub. Code: 4702****B.Sc (Nursing) DEGREE EXAMINATION**

**(New Regulations for the candidates admitted from 2006-07 onwards)**  
**First Year**

**Paper II – NUTRITION AND BIOCHEMISTRY****Q.P. Code : 664702****Time : Three hours****Maximum : 75 marks****Answer ALL questions.****Answer Section A and Section B SEPARATELY.****SECTION A****(NUTRITION)****I. Elaborate on: (1X15=15)**

1. Explain the digestion and absorption of carbohydrates. List the functions and characteristics of carbohydrates.

**II. Write notes on : (3X 5 =15)**

1. Anthropometric measurements.
2. Factors affecting BMR.
3. Ascorbic acid.

**III. Short Answer: (5X 2 =10)**

1. Define balanced diet.
2. Define Digestibility co-efficient.
3. Write two functions of lipids.
4. Classification of amino acids.
5. Write the classification of carbohydrates.

**SECTION B  
(BIOCHEMISTRY)****I. Elaborate on: (1X15=15)**

1. Define Gluconeogenesis. Describe in detail about the pathway of Gluconeogenesis.

**II. Write notes on : (2X 5 =10)**

1. Urea cycle.
2. Metabolic acidosis.

**III. Short Answer: (5X 2 =10)**

1. Name four clinically important enzymes.
2. Write the reference range for serum electrolytes.
3. Laboratory findings in a case of obstructive jaundice.
4. Essential fatty acid.
5. Metabolic alkalosis.

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