

February 2009

[KU 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. Essay:** (1 x 15=15)

1. How will you plan and conduct a nutrition education programme in a village with reference to vitamin A deficiency?

**II. Write Short Notes on :** (3 x 5=15)

1. Basic 5 food groups.
2. Functions of calcium and phosphorus.
3. Classification of lipids.

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

1. Name 2 sources of carbohydrates.
2. Name two signs and two symptoms of PEM.
3. Mention two sources of proteins.
4. Define BMR.
5. Write two signs and two symptoms of rickets.

**SECTION – B**  
**(BIOCHEMISTRY)**

**I. Essay:** (1 x 15=15)

1. Write in detail about the synthesis and break down of haem and the disorders associated with bilirubin metabolism.

**II. Write Short Notes on :** (2 x 5=10)

1. Ketone bodies.
2. Vitamin C

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

1. Biuret test.
2. Vandenberg test.
3. Name the Lipotropic factors.
4. Creatine clearance test.
5. Name four lipoproteins.

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August 2009

[KV 1011]

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**SECTION – A**  
(NUTRITION)

**I. Essay:** (1 x 15=15)

1. Briefly explain about water soluble vitamins.

**II. Write Short Notes on :** (3 x 5=15)

1. Protein calorie malnutrition.
2. Vitamin “A” deficiency.
3. Dietary fibre.

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

1. Two types of supplementary foods.
2. List out the two types of cooking method.
3. Write two functions of calcium.
4. List out the types of rancidity.
5. List out the essential fatty acids.

**SECTION – B**  
(BIOCHEMISTRY)

**I. Essay:** (1 x 15=15)

1. Describe Urea cycle. What is the normal blood urea level?

**II. Write Short Notes on :** (2 x 5=10)

1. Metabolic Acidosis.
2. Metabolic role and deficiency manifestation of ascorbic acid.

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

1. What is enzyme inhibition? Classify:
2. Mention the functions of lysosomes.
3. Give four examples for detoxification by conjugation.
4. Define clearance. How is it calculated?
5. What are Homopolysaccharides? Give Example.

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[KW 1011]

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**Q.P. Code : 664702**

**Time : Three hours**

**Maximum : 75 marks**

**Answer ALL questions.**

**Answer Section A and Section B SEPARATELY.**

**SECTION – A**  
**(NUTRITION)**

**I. Essay:** (1 x 15=15)

1. What is preservation? Explain methods of preservation.

**II. Write Short Notes on :** (3 x 5=15)

1. Essential aminoacids.

2. Role of fiber.

3. Anthropometry.

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

1. Nutritional classification of food.

2. Two sources of vitamin C.

3. What is balanced diet?

4. Write any two functions of fat.

5. What is osteomalacia and osteoporosis?

**SECTION – B**  
**(BIOCHEMISTRY)**

**I. Essay:** (1 x 15=15)

1. What is gluconeogenesis? How is glucose formed from alanine?

**II. Write Short Notes on :** (2 x 5=10)

1. Chylomicrons.

2. Transamination.

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

1. Name the primary and secondary bile acids.

2. What is meth hemoglobin? What is its significance?

3. What are the different bases found in DNA? How are they paired?

4. What is the deficiency manifestation of Vitamin C?

5. What is the normal total serum bilirubin level? Mention the name of the test for it?

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