

August 2011

[KZ 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 : 100 marks

Answer ALL questions.

Answer Section A and Section B SEPARATELY.

**SECTION A
(NUTRITION)**

I. Essay: (1X20=20)

1. Define BMR. How will you determine the BMR? List the factors affecting the BMR of a person.

II. Write Short Notes on : (4X 5 =20)

1. Food groups.
2. Nutritive value of Proteins.
3. Importance of nutrition in nursing.
4. Regulation of blood glucose.

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

1. Two types of weaning foods.
2. Two national organizations associated with nutrition.
3. Sources of Iron.
4. List out the essential amino acids.
5. List dry heat methods of cooking foods.

**SECTION B
(BIOCHEMISTRY)**

I. Essay: (1X20=20)

1. Write down the steps involved in Urea cycle and how it is regulated? What is the normal level of urea in an adult?

II. Write Short Notes on : (4X 5 =20)

1. Metabolic acidosis.
2. Role of Vitamin A in vision.
3. Renal function test.
4. Factors influencing enzyme action.

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

1. Name two essential fatty acids.
2. Name two clinically significant transaminase measured in the laboratory.
3. Name two special products from tyrosine and their function.
4. What are the coenzymes of pyridoxine? Mention a reaction where it is used?
5. What is the end product of purine catabolism? What is its normal level?
