



August 2010

[KX 824]

Sub. Code: 4884

**B.Sc (Nursing) DEGREE EXAMINATION  
(For Trained Nurses)  
First Year – Non – Semester  
Paper III – BIOCHEMISTRY AND BIOPHYSICS  
Q.P. Code : 684884**

Time : Three hours

Maximum : 75 marks

Answer ALL questions.

Answer Section A and B in a SEPARATE answer book.

**SECTION A  
(BIOCHEMISTRY)**

**I. Essay:** (1X15=15)

1. Discuss the factors affecting Enzyme activity. Name two Enzymes that are used for therapy.

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

1. Malabsorption Syndrome of Lipids.
2. Ketone bodies and their utilisation.
3. Glucose Tolerance Test. (GTT).

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

1. Nitrogenous constituent of urine.
2. Normal serum level of cholesterol and uric acid.
3. Functions of electrolytes.
4. Define oxidative phosphorylation.
5. Write the normal values of blood glucose during fasting and postprandial state.

**SECTION B  
(BIOPHYSICS)**

**I. Essay:** (1X15=15)

1. Explain about basic levers and body mechanics.

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

1. Line and center of gravity of the human body.
2. Electricity and human body.

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

1. Units of length, weight, mass and time.
2. Temperature scales.
3. Arterial and venous blood pressure.
4. State the loss of electromagnetic induction.
5. What are the biological effects of radiation?

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