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**POST BASIC BACHELOR OF SCIENCE IN NURSING DEGREE
EXAMINATION**

First Year - Non Semester
(For candidates admitted from 2004-2005 onwards)
Paper III – BIOCHEMISTRY AND BIOPHYSICS
Q.P. Code : 684884

Time : Three hours

Maximum : 100 marks

Answer ALL questions.
Answer Section A and B in a SEPARATE answer book.

**SECTION A
(BIOCHEMISTRY)**

I. Essay: (1X20=20)

1. Write the Neoglucogenesis (Glucogenesis) process in detail and explain the key enzymes action on it.

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

1. Mechanism of action of enzymes.
2. Lipoproteins and their distribution.
3. When and How glucose tolerance test (GTT) is performed?
4. Plasma proteins and their functions.

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

1. What is glycemia?
2. Lysosomes.
3. Abnormal level of lipase.
4. Hyper uricemia.
5. Write the sources of potassium.

**SECTION B
(BIOPHYSICS)**

I. Essay: (1X20=20)

1. Explain about basic levers and body mechanics.

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

1. Line and center of gravity of the human body.
2. Electricity and human body.
3. Acceleration and Deceleration.
4. Application of traction force in medical field.

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 laws of electromagnetic induction.
5. What are the biological effects of radiation?
