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[LC 824] **FEBRUARY 2013** **Sub. Code: 4884**

POST BASIC BACHELOR OF SCIENCE IN NURSING DEGREE EXAMINATION

First Year - Non Semester

Paper III – BIOCHEMISTRY AND BIOPHYSICS

Q.P. Code : 684884

Time : Three hours **Maximum : 100 marks**

(180 Min)

Answer Section A and B in a SEPARATE answer book.

SECTION A
(BIOCHEMISTRY)

I. Essay: **(1x20=20)**

1. Explain the gluconeogenesis process and add a note on Cori's cycle

II. Write Notes on: **(4x5=20)**

1. Mechanism of enzyme action
2. Lipoproteins
3. Transamination
4. Two liver function tests .

III. Short Answer on: **(5x2=10)**

1. Define reducing disaccharides
2. Function of lipids
3. What is oxidative phosphorylation
4. Atherosclerosis
5. Normal value of blood urea and blood cholesterol .

SECTION B
(BIOPHYSICS)

I. Essay: **(1x20=20)**

1. a) Newton's laws of motion with an examples for each
   b) Explain the four methods of heating the tissues
   c) Explain the laws of radioactivity

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II. Write Notes on: **(4x5=20)**

1. Five rules and conventions in the use of symbols in SI units
2. Center of gravity and states of equilibrium with examples
3. What is a simple machine and explain the types of pulleys
4. Explain reflection and refraction with neat diagram

III. Short Answers on: **(5x2=10)**

1. Boyle's law
2. P,Q,R,S,T wave of an electrocardiogram
3. Half life of a radioactive element with an example
4. What is a pacemaker
5. Fundamental unit with an example

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