



[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
(180 Min)

Maximum : 100 marks

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





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

