



[LE 824]

FEBRUARY 2014

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 : 75 marks

Answer Section A and B in a SEPARATE answer book.

**SECTION A
(BIOCHEMISTRY)**

I. Essay

(1x15=15)

1. Explain the various factors which influence enzyme activity. Give the diagnostic importance of the enzymes-Transaminase and Alkaline phosphatase.

II. Write Notes on:

(3x5=15)

1. Plasma proteins and their functions
2. TCA Cycle
3. Biological importance of lipids.

III. Short Answers on:

(5x2=10)

1. Lysosome
2. Normal level of blood urea and creatinine
3. Acidosis
4. Two differences between DNA and RNA
5. Name the aromatic amino acids

**SECTION B
(BIOPHYSICS)**

I. Essay:

(1x15=15)

1. What is Gravity? Give an essay on the effect of gravity on the human body and its application in nursing.

II. Write Notes on:

(2x5=10)

1. Focusing elements of the eye
2. What is radioactivity? Give the names of two isotopes and their applications in medicine.

III. Short Answers on:

(5x2=10)

1. Temperature scales.
2. Acceleration.
3. Refraction.
4. Relative humidity.
5. Specific heat.
