

[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.
