

[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.

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