



**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 : 75 Marks**

**Answer Section A and B in a SEPARATE answer book.**

**SECTION - A**  
**(BIOCHEMISTRY)**

**I. Elaborate on:** (1 x 15 = 15)

1. Give a detailed account on regulation of blood glucose level. Add a note on glycosuria.

**II. Write notes on:** (3 x 5 = 15)

1. Gout disease.
2. Essential aminoacid.
3. Rancidity.

**III. Short answers on:** (5 x 2 = 10)

1. Creatinine clearance.
2. Hypercholesterolemia.
3. Normal level of urea and uric acid.
4. Metabolic acidosis.
5. Give two examples for Isoenzymes.

**SECTION - B**  
**(BIOPHYSICS)**

**I. Elaborate on:** (1 x 15 = 15)

1. What is meant by ECG? Describe its relevance in evaluating the function of the heart.

**II. Write notes on:** (2 x 5 = 10)

1. Difference between light waves and sound waves.
2. Pace maker.

**III. Short answers on:** (5 x 2 = 10)

1. Body mechanics.
2. Convert 98.6°F into celsius.
3. Presbyopia.
4. Pascal's Law.
5. Derived units.