

[LM 824]

FEBRUARY 2018

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****Maximum : 75 Marks****Answer Section A and B in a SEPARATE answer book.**

**SECTION A  
(BIOCHEMISTRY)**

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

1. Explain the biosynthesis of proteins in the cells.

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

1. Mechanism of enzyme action.
2. Explain the glycogenolysis process.
3. Write notes on cholesterol biosynthesis.

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

1. Hyperglycemia.
2. Essential amino acids.
3. Normal level of urea and cholesterol in blood.
4. Phenyl ketonuria.
5. Nucleus.

**SECTION B  
(BIOPHYSICS)**

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

1. What is radio activity? Explain the use of radio isotopes in medicine.

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

1. Sphygmomanometer.
2. States of equilibrium with examples.

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

1. Types of lenses.
2. Refraction and reflection.
3. Differentiate between vector and scalar quantities.
4. Biological effects of electric shock.
5. Acceleration.

\*\*\*\*\*