

[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.
