

[LL 824]

**AUGUST 2017**

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. Describe the  $\beta$  oxidation of fatty acids and its energetics.

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

1. Glycogen storage disease.
2. Isoenzymes.
3. Creatinine clearance.

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

1. Essential amino acids.
2. Define glycogenolysis.
3. Name the ketone bodies.
4. Name any two products derived from cholesterol.
5. Name the plasma proteins.

**SECTION B  
(BIOPHYSICS)**

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

1. Explain the human eye and visual defects.

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

1. What is noise pollution? How can it be prevented?
2. Pulse oximeter.

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

1. What is Doppler effect?
2. What are temperature scales?
3. What is ECT?
4. What is ocular pressure?
5. Types of lenses.

\*\*\*\*\*