



[LF 824]

AUGUST 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

Maximum: 75 marks

Answer Section A and B in a SEPARATE answer book.

**SECTION A
(BIOCHEMISTRY)**

I. Essay: (1x15=15)

1. Describe the metabolism of Krebs cycle. Explain how many ATP molecules are formed in this cycle?

II. Write Notes on: (3x5=15)

1. GTT
2. Enzymes of clinical importance
3. Lipoproteins

III. Short Answers on: (5x2=10)

1. Ribosomes
2. Phenylketonuria
3. Scurvy
4. Fluoride
5. Essential Fatty acids

**SECTION B
(BIOPHYSICS)**

I. Essay: (1x15=15)

1. Discuss the application of the principles of pressure in nursing.

II. Write Notes on: (2x5=10)

1. Sphygmomanometer.
2. Electromagnetic spectrum

III. Short Answers on: (5x2=10)

1. Equation for relationship between energy, frequency and wavelength of light
2. Application of hydrometer.
3. Simple pulleys.
4. Liquid Crystal Display (LCD)
5. Total internal reflection

