

[LG 824]

FEBRUARY 2015

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:** (1 x 15 = 15)

1. Give a detailed account of TCA cycle. How many molecules of ATP are produced on complete oxidation of one molecule of glucose?

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

1. Enzyme profile in clinical diagnosis
2. Urea cycle
3. Essential amino acids

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

1. Endoplasmic reticulum
2. Gout
3. Normal level of urea and cholesterol in serum
4. Night blindness
5. Wilson's disease

**SECTION B
(BIOPHYSICS)****I. Essay:** (1 x 15 = 15)

1. Give an essay on the physiology of hearing.

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

1. Law of conservation of energy
2. Instruments used for detecting ionizing radiation

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

1. Derived units
2. Law of floatation
3. Inclined plane
4. Ocular pressure
5. Hypermetropia
