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[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:  $(1 \times 15 = 15)$ 

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:  $(3 \times 5 = 15)$ 

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

## III. Short answers on: $(5 \times 2 = 10)$

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

## SECTION B (BIOPHYSICS)

I. Essay:  $(1 \times 15 = 15)$ 

Give an essay on the physiology of hearing.

II. Write notes on:  $(2 \times 5 = 10)$ 

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

## III. Short answers on: $(5 \times 2 = 10)$

- 1. Derived units
- Law of floatation
- 3. Inclined plane
- Ocular pressure
- Hypermetropia

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