[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:	$(5 \mathbf{x} 2 = 10)$
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:	$(1 \times 15 = 15)$
1. Give an essay on the physiology of hearing.	
II. Write notes on:	$(2 \times 5 = 10)$
1. Law of conservation of energy	
2. Instruments used for detecting ionizing radiation	
III. Short answers on:	$(5 \ge 2 = 10)$
1. Derived units	
2. Law of floatation	
3. Inclined plane	
4. Ocular pressure	
5. Hypermetropia	

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