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[LH 824] AUGUST 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 ALL questions

Answer Section A and B in a SEPARATE answer book.

SECTION A (BIOCHEMISTRY)

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

Describe the metabolism of glycolysis, its energetics and regulation.

II. Write notes on:  $(3 \times 5 = 15)$ 

- 1. Importance of vitamins.
- 2. Urea cycle.
- Metabolic Acidosis.

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

- 1. Name any four Trace Elements.
- Name any two Special proteins.
- 3. Albinism.
- 4. Name the types of Jaundice.
- Golgi complex.

SECTION B (BIOPHYSICS)

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

- a) Explain the four methods of heating the tissues.
  - Explain the first law of Newton with an example.

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

- States of Equilibrium with examples.
- Explain Total internal reflection and the application in medicine.

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

- Buoyant force.
- 2. Dalton's law.
- 3. Law of conservation of energy.
- 4. What is the difference between Mass and Weight?
- Give two names of radioisotopes used in Brachytherapy.

