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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 x 15 = 15)**

1. Describe the metabolism of glycolysis, its energetics and regulation.

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

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

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

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

SECTION B
(BIOPHYSICS)

I. Essay: **(1 x 15 = 15)**

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

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

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

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

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

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