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[LL 824] **AUGUST 2017** 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. Elaborate on: **(1 x 15 = 15)**

1. Describe the β oxidation of fatty acids and its energetics.

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

1. Glycogen storage disease.
2. Isoenzymes.
3. Creatinine clearance.

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

1. Essential amino acids.
2. Define glycogenolysis.
3. Name the ketone bodies.
4. Name any two products derived from cholesterol.
5. Name the plasma proteins.

SECTION B
(BIOPHYSICS)

I. Elaborate on: **(1 x 15 = 15)**

1. Explain the human eye and visual defects.

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

1. What is noise pollution? How can it be prevented?
2. Pulse oximeter.

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

1. What is Doppler effect?
2. What are temperature scales?
3. What is ECT?
4. What is ocular pressure?
5. Types of lenses.

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