

[LD 824] **AUGUST 2013** **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
(180 Min)

Maximum : 100 marks

Answer Section A and B in a SEPARATE answer book.

SECTION A
(BIOCHEMISTRY)

I. Essay **(1x20=20)**

1. Write down the normal blood glucose level. Describe the hormonal regulation of Blood glucose level. Add a note on glycosuria.

II. Write Notes on: **(4x5=20)**

1. Essential amino acids
2. Kidney Function tests
3. Enzymes – clinical significance
4. Elevated blood uric acid level.

III. Short Answer on: **(5x2=10)**

1. Name the ketone bodies
2. Serum proteins and their normal values
3. Phospholipids
4. Name any four important abnormal constituents of urine
5. Phosphorylation

SECTION B
(BIOPHYSICS)

I. Essay: **(1x20=20)**

1. Describe in detail various equipments used in intensive care unit.

II. Write Notes on: **(4x5=20)**

1. Application of light in nursing.
2. Noise Pollution
3. Blood pressure measurements.
4. Radio isotopes used in medicine.

III. Short Answers on: **(5x2=10)**

1. Second order of lever.
2. Normal ECG waveform.
3. Differentiate between scalar and vector quantities.
4. Biological effects of electric shock.
5. Myopia and Hypermetropia.
