

[LA 824]

Sub. Code: 4884

**POST BASIC BACHELOR OF SCIENCE IN NURSING DEGREE
EXAMINATION****First Year - Non Semester****(For candidates admitted from 2004-2005 onwards)****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. Elaborate on:** (1X15=15)

1. Describe the beta- oxidation of Fatty acid and its energetics.

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

1. Glycogen storage diseases.
2. Transamination.
3. Creatinine clearance.

III. Short Answer: (5X 2 =10)

1. Name the hypo and hyperglycemic hormones.
2. Essential amino acid.
3. Define Isoenzymes with two examples.
4. Hyperkalemia.
5. Name the abnormal constituents of urine.

**SECTION B
(BIOPHYSICS)****I. Elaborate on:** (1X15=15)

1. What is ultrasound? Discuss the various methods of ultrasound imaging in medicine.

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

1. Clinical thermometer.
2. Pace maker.

III. Short Answers: (5X 2 =10)

1. Differentiate between vector and scalar quantities.
2. What are the forces acting on the human body?
3. What is Astigmatism?
4. What is Electroconvulsive therapy (ECT)?
5. What is a thermo luminescent dosimeter (TLD)?
