



**February 2012**

[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)?

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