First Post Basic B.Sc Nursing Examinations-October 2012

#### **BIOCHEMISTRY AND BIOPHYSICS**

## Time: 3 Hours

- Answer all questions. Draw diagrams wherever necessary
- Write section A and section B in separate answer books. Do not mix up questions from section A and section B.

#### QP CODE: **103011** Section A - BIOCHEMISTRY Marks: 37112

### Essay:

1. What is the normal fasting blood glucose level. Explain the regulation of blood glucose.

### Short notes:

- 2 Urea cvcle
- 3 Role of liver in fat metabolism.
- 4 Mention the diagnostic importance of alkaline phosphatase ,amylase, alanine aminotransferase, aspartate aminotransferase and creatine kinase
- 5 Mitochondrial electron transport chain

#### Answer briefly:

- 6 Mention normal blood levels of cholesterol, potassium, uric acid, total protein and albumin.
- 7 Transamination
- 8 Name the hormones formed from tyrosine

# OP CODE: 104011 Section B- BIOPHYSICS

### Essay:

1. Explain the principles and applications of any three common electronic equipments used in patient care

### Short notes:

- 2. Measurement of Intracranial pressure
- 3. Laws of reflection
- 4. Define atomic number and atomic weight. What are isotopes, give examples
- 5. Electroencephalography : principle and applications

#### Answer briefly:

- 6. Convection
- 7. Boyle's law
- 8. Units of measurement of energy and work

\*\*\*\*\*

Marks: 371/2

(10)

**Total Marks: 75** 

(4x5=20)

 $(3x2 \frac{1}{2} = 7 \frac{1}{2})$ 

(4x5=20)

 $(3x2^{1/2}=7^{1/2})$ 

(10)