

Reg. No:.....

First Year Post Basic B.Sc Nursing Supplementary Examinations- April 2015

BIOCHEMISTRY AND BIOPHYSICS

Time: 3 Hours

Total Marks: 75

- Answer all questions. Draw diagrams wherever necessary
- Write **section A** and **section B** in **separate answer books(32 pages)**.
Do not mix up questions from section A and section B.

QP CODE: **103011** **Section A - BIOCHEMISTRY**

Marks: **37½**

Essay:

(10)

1. Explain the digestion and absorption of lipids.

Short notes:

(4x5=20)

2. Mention the functions of subcellular organelle
3. Gluconeogenesis.
4. Explain competitive enzyme inhibition. Mention two examples.
5. Functions of plasma proteins.

Answer briefly:

(3x2 ½ =7 ½)

6. Name the essential amino acids
7. Name the lipoproteins and mention their functions
8. Mention the normal serum levels of •Urea •Uric Acid •Creatinine •Sodium •Potassium

QP CODE: **104011**

Section B- BIOPHYSICS

Marks: **37½**

Essay:

(10)

1. Explain the principles of gravity and mention the examples for application of principles of gravity in nursing. Add a note on effect of gravitational forces on human body.

Short notes:

(4x5=20)

2. Principle and applications of lever and body mechanics in nursing
3. Temperature scales
4. Biological effects of light
5. Magnetic resonance imaging

Answer briefly:

(3x2½=7½)

6. Focusing elements of the eye
7. X-ray
8. Arterial blood pressure.
