Rea.	No	:	 	 

## First Year Post Basic B.Sc Nursing Examinations- November 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 how lipids are digested and absorbed from the body.

Short notes: (4x5=20)

- 2. Urea cycle
- 3. Glucose tolerance test
- 4. Diagnostic importance of enzymes
- 5. Properties and functions of water in human body

Answer briefly: (3x2 % = 7 %)

- 6. Hypoglycemia
- 7. Mention the normal level of fasting blood glucose, serum cholesterol, serum creatinine, serum potassium and serum uric acid level.
- 8. Mitochondria

QP CODE: 104011 Section B- BIOPHYSICS Marks: 371/2

Essay: (10)

1. Describe the regulation of body temperature. Mention the use of heat for sterilization (5+5=10)

Short notes: (4x5=20)

- 2. Define simple machines and explain the different types of simple machines.
- 3. Newton's law of motion with suitable examples
- 4. Relative humidity and its application in nursing
- 5. ECT

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

- 6. Measurement of ocular pressure.
- 7. Biological effects of light.
- 8. Radiation hazards.

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