

Reg. No:.....

First Year Post Basic B.Sc Nursing Supplementary Examinations-May 2014

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 proteins are digested and absorbed from the body.

Short notes:

(4x5=20)

2. Biological importance of lipids and their functions.
3. What are the precautions for handling specimens for enzyme estimation.
4. Genetic code
5. Name the organelles of the cell and mention its functions.

Answer briefly:

(3x2 ½ =7 ½)

6. Hyperglycemia
7. Mention the normal level of fasting blood glucose, serum low density cholesterol, serum creatinine, serum bicarbonate and plasma protein level.
8. Essential fatty acids

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Section B- BIOPHYSICS

Marks: **37½**

Essay:

(10)

1. Describe the common electronic equipments used in patient care

Short notes:

(4x5=20)

2. Explain refractory errors of eye with their treatment.
3. Define heat and explain the different mode of transfer of heat
4. MRI scan
5. Describe specific gravity and its application in nursing.

Answer briefly:

(3x2½=7½)

6. Define arterial pressure. What is the normal arterial blood pressure in an adult human.
7. ECG
8. Describe five radioisotopes and its use in medicine
