

Reg. No:.....

**First Year Post Basic B.Sc Nursing Degree Supplementary Examinations
March 2026**

**Biochemistry & Biophysics
(2016 Scheme)**

Time: 3 Hours

Total Marks: 75

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *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: 113011

Section A – Biochemistry

Marks: 40

Short Essays:

(2x7=14)

1. Name the ketone bodies. Add a note on utilization of ketone bodies and ketosis(3+2+3)
2. Describe steps of gluconeogenesis. Add a note on the key enzymes of gluconeogenesis (5+2)

Short Notes:

(2x5=10)

3. What is the normal value of serum sodium. What are the salient features of hyponatremia (1+4)
4. Digestion and absorption of proteins.

Answer briefly:

(4x4=16)

5. Gout.
6. Nucleus.
7. Classify aminoacids. Give examples. (2+2)
8. Fatty liver.

QP Code: 114011

Section B- Biophysics

Marks: 35

Short Essays:

(3x7=21)

1. Explain Newton's Laws of motion.
2. What is Radioactivity. Write the characteristics of each radiations. Write any Two uses of Radio isotopes.
3. Explain how defibrillators work to manage life-threatening cardiac conditions. What nursing assessments are essential when caring the patients.

Short Notes:

(2x4=8)

4. Explain the mechanism of temperature regulation in human body.
5. Explain in detail the atmospheric pressure and osmotic pressure.

Answer Briefly:

(2x3=6)

6. Myopia and its correction.
7. Distinguish between fundamental and derived units. Write examples.

CORRECTION / NO-CORRECTION FILE
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QPCODE: 113011

Dated: 27-03-2026

QP Code: 113011

Question No.1

Change in Mark distribution from '3+2+3' to "3+2+2"

QP Code: 114011

No Corrections

Corrections/Modifications/Replacement of Questions if any shall be made available to all students. Take the print out of the Correction File in such cases and distribute to all students.

(Sd/-)

CONTROLLER OF EXAMINATIONS