

Reg. No:.....

**First Year Post Basic B.Sc Nursing Degree Regular/Supplementary
Examinations November 2023**

**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. What are lipoproteins. Explain the types and functions.
2. Explain the mitochondrial oxidation process.

Short Notes:

(2x5=10)

3. Write the factors affecting enzyme action.
4. Glycogenesis.

Answer briefly:

(4x4=16)

5. Draw the structure and explain the functions of Golgi apparatus.
6. Gout.
7. Essential amino acids.
8. What are the carbohydrate digesting enzymes present in our body.

QP Code: 114011

Section B- Biophysics

Marks: 35

Short Essays:

(3x7 = 21)

1. Explain Newton's Laws of Motion with suitable examples
2. Write the principles of pulleys. Write briefly about the applications of pulleys and traction.
3. What is electrocardiography (ECG). Write its principle, procedure, and precautions.

Short Notes:

(2x4 = 8)

4. Write a note on the defects of vision and their remedies.
5. What is ultrasound. Write its application in the medical field.

Answer Briefly:

(2x3 = 6)

6. Define work, power and energy.
7. What are radioisotopes. Write their clinical uses.
