

Reg. No:.....

**First Year Post Basic B.Sc Nursing Degree Regular/Supplementary
Examinations February 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. How the blood glucose level is regulated in fasting and post prandial conditions.
2. Explain the detoxification of Ammonia with Urea cycle.

Short Notes:

(2x5=10)

3. Explain the features, types and functions of plasma proteins.
4. Write the diagnostically important enzymes.

Answer briefly:

(4x4=16)

5. Draw the structure and explain the functions of Nucleus.
6. List out the functions of lipids.
7. Name some electrolytes with functions.
8. Fatty liver.

QP Code: 114011

Section B- Biophysics

Marks: 35

Short Essays:

(3x7 = 21)

1. Explain the production, properties and uses of X-rays.
2. Define specific heat. How is the normal temperature of the body regulated. Explain temperature scales.
3. Explain in detail about the applications of gravity in nursing with suitable examples.

Short Notes:

(2x4 = 8)

4. Principle involved in the working of an autoclave and its application in nursing.
5. Cardiac defibrillation.

Answer Briefly:

(2x3 = 6)

6. Electrocardiography (ECG).
7. Write the different kinds of lever. Give examples of each.
