

Reg. No:.....

**First Year Post Basic B.Sc Nursing Degree Supplementary Examinations
May 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. Describe Beta- oxidation of fatty acids with their energetics
2. Explain sodium balance with reference range, clinical significance and functions

Short Notes:

(2x5=10)

3. Describe Glucose Tolerance test (GTT) and add few point on glycosuria
4. Factors affecting enzyme activity

Answer briefly:

(4x4=16)

5. Role of bile salts in lipid digestion and absorption
6. Gout
7. Functions of tyrosine and phenylalanine.
8. Structure and function of plasma membrane

QP Code: 114011

Section B- Biophysics

Marks: 35

Short Essays:

(3x7 = 21)

1. What is an X-ray. Write its properties and its applications in the medical field.
2. Explain briefly about the Electroencephalograph (EEG)
3. What is noise pollution. Explain briefly about the source, adverse effects, and control of noise pollution.

Short Notes:

(2x4 = 8)

4. Write a short note on Ventilator
5. Regulation of body temperature

Answer Briefly:

(2x3 = 6)

6. Write the different kinds of levers. Give examples for each
7. What are the defects of vision and their remedy
