



**POST BASIC BACHELOR OF SCIENCE IN NURSING
DEGREE EXAMINATION**

FIRST YEAR – NON SEMESTER

PAPER III – BIOCHEMISTRY AND BIOPHYSICS

Q.P. Code: 684884

Time : Three Hours

Maximum : 75 Marks

Answer Section A and B in a SEPARATE answer book.

**SECTION - A
(BIOCHEMISTRY)**

I. Elaborate on: (1 x 15 = 15)

1. What is Ketosis? Write in detail about the Synthesis, Utilisation and Disposal of Ketonebodies.

II. Write notes on: (3 x 5 = 15)

1. Phospholipids and its functions.
2. Phenylketonuria.
3. Glycogenesis.

III. Short answers on: (5 x 2 = 10)

1. PUFA.
2. Two examples for basic amino acids.
3. Normal value of Serum total protein and albumin.
4. Two Enzymes analyzed for Liver function.
5. Lysosomes.

**SECTION - B
(BIOPHYSICS)**

I. Elaborate on: (1 x 15 = 15)

1. What is sterilization? Explain the methods of sterilization.

II. Write notes on: (2 x 5 = 10)

1. What are the principles followed when lifting and moving a patient?
2. Radioactive pollution and health.

III. Short answers on: (5 x 2 = 10)

1. Ohm's law.
2. What is noise?
3. What are the ways of minimizing friction?
4. Luminous bodies.
5. Osmotic pressure.