

**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. Discuss the factors affecting enzyme action. Add a note on enzymes associated with cardiac and liver function.

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

1. Mucopolysaccharides.
2. Plasma proteins and its function.
3. Mitochondria.

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

1. Define gluconeogenesis.
2. Alkalosis.
3. Oxidative phosphorylation.
4. Flurosis.
5. Name the essential fatty acids.

**SECTION - B
(BIOPHYSICS)**

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

1. What are X- rays? List the properties and uses of X- rays in various fields.

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

1. Write the clinical application of gravity.
2. List the applications of light in human body.

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

1. Mass.
2. Channels of heat loss in human body.
3. Hydro-static pressure.
4. Audible sound.
5. Effects of electricity on human body.
