

**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. Describe the β -oxidation of fatty acids. Mention the Energetics and its deficiency.

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

1. Transamination and Deamination.
2. Glycogen storage diseases.
3. Cardiac related enzymes.

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

1. Translation.
2. Cytosol and cytoskeleton.
3. Normal levels of AST and ALT.
4. Homo-polysaccharides.
5. Normal cholesterol levels in blood.

**SECTION - B
(BIOPHYSICS)**

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

1. Describe the various types of pulleys and explain the lever mechanism in the human body.

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

1. Explain different theories to explain the nature of light.
2. Pace-maker.

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

1. What are the differences between mass and weight?
2. Relative density.
3. Astigmatism.
4. State Fleming left hand rule.
5. What is Echo?
