



[LQ 824]

**FEBRUARY 2020**

Sub. Code: 4884

**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. Fluorosis.
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.

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