

[LK 824]

FEBRUARY 2017

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. Explain in detail about glucose tolerance test with curve.

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

1. Alkaptonuria.
2. Factors affecting enzyme activity.
3. Lipoproteins.

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

1. Mitochondria.
2. Name the bile acids.
3. Define glycolysis.
4. Name the electrolytes and their normal values.
5. Name any two liver function tests.

**SECTION B
(BIOPHYSICS)**

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

1. What is lever? Describe the types of levers with examples. Explain about body mechanics.

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

1. Aneroid Barometer.
2. Why mercury is used as thermometric liquid?

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

1. Units of work, power, and energy.
2. State the Newton's III law of motion.
3. Define change of state.
4. What is laser?
5. What is rectifier?
