

**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.

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