

**THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY**

**[PBBSCN 0523]**

**MAY 2023**

**Sub. Code: 4884**

**(FEBRUARY 2023 EXAM SESSION)**

**POST BASIC BACHELOR OF SCIENCE IN NURSING  
DEGREE EXAMINATION**

**(Regulations for candidates admitted from 2010-2011 Session onwards)**

**FIRST YEAR**

**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 the process of Protein synthesis in the Cells.

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

1. Write a brief note on Gout.
2. Write a note on Protein malnutrition.
3. Cori cycle and its importance.

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

1. Write the normal values of Serum electrolytes.
2. Define Essential Fatty Acids.
3. Ketoacidosis.
4. Phenylketonuria.
5. Acidosis.

**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. Line and centre of Gravity of the Human body.
2. Pace maker.

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

1. Different Temperature scales.
2. Application of light in Nursing.
3. Pascals law.
4. What are the biological effects of Radiation?
5. What is a Thermo Luminescent Dosimeter (TLD)?

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