

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

[PBBSN 0322]

MARCH 2022

Sub. Code: 4884

(For August 2021 Session Examination)

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

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

FIRST YEAR (Regular)

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 urea cycle process in detail.

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

1. Glucose Tolerance Test
2. Factors affecting enzyme activity
3. Hypercholesterolemia.

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

1. Ribosomes.
2. Diabetes mellitus
3. Write the normal levels of amylase & lipase.
4. Classification of Proteins.
5. Hyperkalemia

**SECTION - B
(BIOPHYSICS)**

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

1. Explain the mercury thermometer. Why mercury is used as thermometer liquid? Highlight about the clinical thermometer.

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

1. Write rules and conventions in the uses of symbols in SI units.
2. Explain: Electrocardiography (ECG).

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

1. Linear momentum
2. State: Pascal's law
3. Relative humidity
4. Power of a lens
5. Diathermy.
