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

[PBBSCN 1123]

NOVEMBER 2023 (AUGUST 2023 EXAM SESSION)

Sub. Code: 4884

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

O.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:

are produced during the complete oxidation of Glucose?

1. Explain the process of TCA cycle and regulation. How many molecules of ATP

II. Write notes on: $(3 \times 5 = 15)$

- 1. Lactose intolerance.
- 2. Explain the mechanism of Enzyme activity.
- 3. Write any two Renal Function tests.

III. Short answers on:

 $(5 \times 2 = 10)$

 $(1 \times 15 = 15)$

- 1. Marasmus.
- 2. Importance of HMP shunt.
- 3. Any two products of Cholesterol.
- 4. Write normal value of Serum proteins.
- 5. Mitochondria and Lysosome.

SECTION - B (BIOPHYSICS)

I. Elaborate on: $(1 \times 15 = 15)$

1. What is Radio Activity? Explain the use of Radioisotopes in medicine.

II. Write notes on: $(2 \times 5 = 10)$

- 1. Electricity and Human body.
- 2. Sphygmomanometer.

III. Short answers on:

 $(5 \times 2 = 10)$

- 1. Acceleration and Deceleration.
- 2. Fundamental unit with an example.
- 3. Myopia and Hypermetropia.
- 4. What is Surface tension? Give Units.
- 5. Uses of Ultrasound.
