

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

[AHS 0423]

APRIL 2023

Sub. Code: 5001

**B.Sc. MEDICAL LABORATORY TECHNOLOGY  
FIRST YEAR (Regulations 2010-2011 & 2018-2019 onwards)**

**PAPER I – HUMAN BIOLOGY**

*Q. P. Code: 725001*

**Time: Three Hours**

**Maximum : 100 Marks**

**Answer All questions**

**I. Elaborate on :** **(3 X 10 = 30)**

1. Draw and label the Thyroid Gland, explain about the functions of Thyroid Hormones.
2. Explain the physiology of maintenance of Arterial Blood Pressure.
3. Anatomy and functions of Pancreas.

**II. Write Notes on :** **(8 X 5 = 40)**

1. Pluripotent stem cells.
2. Cerebellum.
3. Electrocardiogram.
4. Mineralocorticoids.
5. Structure and functions of nephron.
6. Types of antibodies and its functions.
7. Liver function tests.
8. Vital capacity of lungs.

**III. Short Answers on :** **(10 X 3 = 30)**

1. Types of cartilage.
2. Characteristics of skeletal muscles.
3. Structure of sperm.
4. Acquired immunity.
5. Composition of bile.
6. Glomerular filtration rate.
7. Acromegaly.
8. Meninges of brain.
9. Name three major salivary glands.
10. Define: Gene, Allele and Locus.

\*\*\*\*\*