

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

[AHS 1122]

NOVEMBER 2022

Sub. Code: 5001

B.Sc. MEDICAL LABORATORY TECHNOLOGY

FIRST YEAR (Regulation 2010-2011)

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 Human cell structure, name its organelles and explain briefly about the functions of Mitochondria.
2. Explain the Physiology of respiration.
3. Name the chambers of the heart and valves. Explain in brief about Systemic and Pulmonary Circulation.

II. Write notes on:

(8 x 5 = 40)

1. Thyroid gland-structure and functions.
2. Phases of Menstrual cycle.
3. Gene, allele and locus.
4. Structure of Nephron.
5. HLA system and its significance.
6. Functions of skin.
7. Physiology of ovulation and conception.
8. Functions of Kidney.

III. Short answers on:

(10 x 3 = 30)

1. What are Blood Groups?
2. Mention the types of tissues and their functions.
3. Erythrocyte Sedimentation rate.
4. Functions of Pharynx.
5. Neuromuscular junction.
6. Name the hormones secreted from Posterior Pituitary gland.
7. Classification of joints.
8. Structure of Endoplasmic reticulum.
9. Composition of bile.
10. Layers of Meninges.
