

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

[AHS 1123]

NOVEMBER 2023

Sub. Code: 1508

**B.Sc. CARDIAC TECHNOLOGY**

**FIRST YEAR (Regulations 2014-2015, 2018-2019, 2020-2021 & 2021-2022 onwards)**

**PAPER I – APPLIED ANATOMY, PHYSIOLOGY AND BIO-CHEMISTRY**

**RELATED TO CARDIAC TECHNOLOGY**

*Q. P. Code: 801508*

**Time: Three hours**

**Maximum : 100 Marks**

**Answer ALL Questions**

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

1. Explain the two main mechanisms that Control Blood Pressure.
2. Describe the circulation of the blood through the Lungs. Name the main vessels involved.
3. Write a detailed note on Lipoprotein in Atherosclerosis.

**II. Write notes on:** **(8 x 5 = 40)**

1. Blood supply of Heart.
2. Systolic and diastolic Blood Pressure.
3. Structure of Nephrons.
4. Cartilages.
5. Oxygen transport in the blood.
6. Muscle of Respiration.
7. Classification of Aminoacids.
8. Describe regulation, characteristics and general functions of WBCs.

**III. Short answers on:** **(10 x 3 = 30)**

1. Structure associated with the Pharynx.
2. Thyroid cartilage.
3. Types of Blood vessels.
4. Erythrocytes.
5. Diffusion.
6. Plasma protein.
7. Functions of Glucocorticoids.
8. Lobes of right and left lung.
9. Functions of Fatty acids.
10. Functions of Veins.

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