

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

[AHS 0423]

APRIL 2023

Sub. Code: 1401

**B.Sc. CARDIO PULMONARY PERFUSION CARE TECHNOLOGY
FIRST YEAR (Regulations 2010-2011, 2014-2015 & 2018-2019 onwards)
PAPER I – ANATOMY & PHYSIOLOGY
Q.P. Code:. 801401**

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 X 10 = 30)

1. Explain Pleura under the following headings:
a) Layers b) Pleural recesses c) Applied Anatomy.
2. Discuss about the blood supply of Heart. Add a note on Applied Anatomy.
3. Describe the Physiology of Blood pressure. Add a note on Hypertension.

II. Write Notes on:

(8 X 5 = 40)

1. Describe the components of Blood.
2. Intercostal space.
3. Explain the physiology of Micturition.
4. Describe the physiology of Heart sounds.
5. Tracheo-bronchial tree.
6. Describe Pituitary gland and its functions.
7. Draw and label the parts of Nephron.
8. Define Endocytosis and Exocytosis with its importance.

III. Short answers on:

(10 X 3 = 30)

1. Sternal Angle and its importance.
2. Areas of Auscultation.
3. Lobes of liver.
4. Mitochondria and its functions.
5. Explain Metabolic Acidosis with its causes.
6. Define Albumin / Globulin ratio with two clinical significances.
7. Hilum of Kidney.
8. Explain Landsteiner's Law.
9. Define Cardiac output with its importance.
10. Define Jaundice and its types.
