

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

[AHS 0423]

APRIL 2023

Sub. Code: 2601

**B.Sc. RESPIRATORY THERAPY
FIRST YEAR (Regulations 2014-2015 & 2018-2019 onwards)
Paper I – ANATOMY & PHYSIOLOGY**

Q. P. Code: 802601

Time: Three hours

Maximum : 100 Marks

Answer ALL Questions

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

1. Describe the Blood supply and Nerve supply of the Heart with suitable diagram.
2. Explain Diaphragm under the following subdivisions:
(a) Origin (b) Insertion (c) Blood supply (d) Nerve supply
(e) Action (f) Orifices present (g) Structures passing through it
(h) Applied anatomy.
3. How is the process of Respiration Regulated? Add a note on Periodic Breathing.

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

1. Difference between the Right Ventricle and Left Ventricle.
2. Pleural recesses and Functions of Pleura.
3. Tracheobronchial tree.
4. Surface marking of Lungs.
5. Conducting system of Heart.
6. Secretion, functions and disorders affecting Pulmonary surfactant.
7. Airway resistance, compliance and work of breathing.
8. Hypoxia and its types.

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

1. Define Mediastinum and mention the structures present in it.
2. Tracheostomy.
3. Name the branches of Arch of Aorta.
4. Structures seen in Nasopharynx.
5. Inter atrial septum.
6. List the forms in which Oxygen is transported in the Blood.
7. List the factors affecting Cardiac output.
8. REM sleep.
9. Define Vital capacity. Give its Normal value.
10. Location and functions of Baroreceptors.
