

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

[AHS 0423]

APRIL 2023

Sub. Code: 1246

**B.Sc. CRITICAL CARE TECHNOLOGY**  
**SECOND YEAR (Regulation 2018-2019 onwards)**  
**PAPER I – ANATOMY + APPLIED ANATOMY & PHYSIOLOGY**  
*Q.P. Code: 801246*

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Describe Coronary Circulation. Add a note on its Applied Anatomy.
2. Describe about Structure of Thyroid gland and its functions.
3. Discuss in detail about Oxygen therapy.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Indications for artificial airways.
2. Factors affecting Cardiac output.
3. ECG.
4. Pleura and Pleural Effusion.
5. Pain pathway.
6. Diaphragm.
7. How to maintain a normal blood pressure? Explain.
8. Circle of Willis.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Accommodation reflex.
2. Suprarenal gland.
3. Gag reflex.
4. Brain death.
5. V/Q mismatch
6. Laryngopharynx.
7. Ureters.
8. Stroke volume
9. Explain the terms : Medial, Lateral and Symmetrical.
10. Cerebrospinal fluid.

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