

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

[LR 1211]

**DECEMBER 2020  
(AUGUST 2020 EXAM SESSION)**

**Sub. Code: 1211**

**DIPLOMA IN CRITICAL CARE TECHNOLOGY  
SECOND YEAR – (Regulation from 2010 -2011)  
PAPER I – APPLIED ANATOMY, PHYSIOLOGY  
Q.P. Code: 841211**

**Time : Three Hours**

**Maximum : 100 Marks**

**Answer All questions.**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Explain about circle of Willis with suitable diagrams.
2. Explain in detail about the borders, surfaces, lobes, fissures and bronchopulmonary segments of left Lung with suitable diagram.
3. Explain in detail the Cerebro Spinal Fluid (CSF) under following headings:  
a) Formation b) Circulation c) Functions d) Applied anatomy.

**II. Write notes on:**

**(10 x 5 = 50)**

1. Conducting system of the Heart.
2. Diaphragm.
3. Hypoxia.
4. Pulmonary function test.
5. Cranial nerves.
6. Difference between Artery and Vein.
7. Write the causes, clinical features and management of Hypertension?
8. Pain pathway.
9. Work of Breathing.
10. Brain Death.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Name the Valves of the Heart.
2. Name the parts of the Brain Stem.
3. Nerve supply of the Tongue.
4. Pituitary hormone.
5. Types of basic tissue.
6. Intercostal muscles.
7. Mitochondria.
8. Epistaxis.
9. Openings of the Diaphragm.
10. Branches of arch of Aorta.

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