

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

**[AHS 0122]**

**JANUARY 2022**

**Sub. Code: 1101**

**(FEBRUARY 2021 & AUGUST 2021 EXAM SESSION)**

**DIPLOMA IN OPERATION THEATRE & ANAESTHESIA TECHNOLOGY/  
DIPLOMA IN CRITICAL CARE TECHNOLOGY**

**FIRST YEAR (Regulation 2010-2011)**

**PAPER I – ANATOMY, PHYSIOLOGY & BIOCHEMISTRY**

***Q.P. Code : 841101***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Describe in detail about the external features of Heart.
2. Describe the transport of Oxygen in the body. Add a note on Oxyhaemoglobin Dissociation Curve.
3. Classify Proteins and mention 5 functions of Proteins.

**II. Write notes on:**

**(10 x 5 = 50)**

1. Blood supply of Brain
2. Animal Cell
3. Anatomy of Lungs
4. Uterus
5. Sodium Potassium Pump
6. Coronary Circulation
7. Bohr's Effect
8. Briefly discuss about Glycogenolysis
9. Functions of Lipids
10. Classify Enzymes with examples.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Define Anatomical position and Abduction.
2. Name the layers of Blood Vessels.
3. Mention the parts and length of Trachea.
4. Appendix.
5. Alveolar-Ventilation Ratio ( AV Ratio ).
6. Functions of Plasma Proteins.
7. Functions of Juxtaglomerular Apparatus.
8. Mention two functions of Calcium.
9. Mention the normal levels of Fasting and Postprandial blood glucose levels.
10. Define BMR.

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