

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

[AHS 1123]

NOVEMBER 2023

Sub. Code: 3002

**B.Sc. CLINICAL NUTRITION**  
**FIRST YEAR (Regulation 2018-2019 onwards)**  
**PAPER II – HUMAN PHYSIOLOGY**

*Q. P. Code: 803002*

**Time: Three hours**

**Maximum : 100 Marks**

**Answer ALL Questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Classify the types of Immunity and add a note on Cell Mediated Immunity.
2. Name the hormones secreted by anterior Pituitary. Briefly describe the functions of growth hormone and add a note on Pituitary dwarfism.
3. Explain in detail about the transport of Oxygen in the blood with a suitable diagram and add a note on Oxygen haemoglobin dissociation curve.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Illustrate the structure of Cell membrane with neat diagram.
2. Explain the pathway of Blood coagulation.
3. Explain the process of digestion and absorption of Fats.
4. Write short notes on Regulation of Body Temperature.
5. List out the features of Hyperthyroidism.
6. Explain the Milk ejection reflex.
7. Describe the mechanism of Hearing.
8. Brief about role of Kidney in regulation of acid base balance.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Differentiate between Isometric and Isotonic Muscle contraction.
2. Classify Diuretics and give two examples for each.
3. Name the Hormones involved in bone remodeling.
4. What is Mean arterial pressure? How is it calculated?
5. What is Cytoskeleton?
6. List the parts of Central nervous system.
7. What is Tidal volume? What is its Normal value?
8. What is the composition of Pancreatic juice?
9. What is Jugular venous pressure?
10. What is Glomerular filtration rate?

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