

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

[AHS 0423]

APRIL 2023

Sub. Code: 2452

BACHELOR IN PROSTHETICS & ORTHOTICS
FIRST YEAR (Regulation 2017-2018 onwards)
PAPER II – PHYSIOLOGY
Q.P. Code: 802452

Time: Three Hours

Answer All questions

Maximum : 100 Marks

I. Elaborate on : **(3X10=30)**

1. What is Normal RBC count? With the help of a neat diagram, explain the structure of RBC. Add a note on different types Anaemia.
2. Describe in detail about the mechanism of Breathing.
3. Classify Ascending tracts. Explain in detail the origin, course, termination and functions of Posterior Column Tracts.

II. Write Notes on : **(8X5=40)**

1. List the functions of Hypothalamus.
2. Differentiate superficial and deep reflex with suitable examples.
3. With the help of a neat diagram, explain the different waves in ECG.
4. Hypoxia.
5. List the functions of Kidney.
6. Classify WBC and write the functions of each WBC.
7. Write about properties of nerve fibers.
8. Explain the events occurring in neuromuscular junction.

III. Short Answers on : **(10X3=30)**

1. What are the functions of cell?
2. Write about the different Blood Indices.
3. What is meant by muscle fatigue?
4. What is a motor unit?
5. What is meant by Dyspnea and Orthopnea?
6. Define cardiac output and write its normal value.
7. What is meant by Functional Residual Capacity?
8. What is meant by Referral pain?
9. What are the functions of Thalamus?
10. List the functions of Skin.
