

Rajiv Gandhi University of Health Sciences, Karnataka

I Year Bachelor in Prosthetics and Orthotics Degree Examination – OCT-2019

Time: Three Hours

Max. Marks: 100 Marks

Physiology

Q.P. CODE: 2810

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

ESSAYS TYPE (answer any Two)

2 x 10 = 20 Marks

1. Define Erythropoiesis. Explain the stages of it with help of a diagram. 1+9
2. Describe mechanics of respiration.
3. Define Tone. Draw a neat labelled diagram of Muscle spindle and explain its functions. Add a note on Hypotonia and Hypertonia. 1+7+2

SHORT ESSAYS TYPE (answer any Ten)

10 x 5 = 50 Marks

4. Transmission of impulse across neuromuscular junction
5. Describe the classification of nerve fibers
6. Define and classify hypoxia with examples
7. Describe the action of insulin and add a note on symptoms of diabetes mellitus
8. Define referred pain and explain its theories with examples
9. List the functions of Basal ganglia and add a note on Parkinson's disease
10. List the properties of reflexes and explain the any 2 properties
11. Name the plasma proteins and describe the functions of plasma proteins
12. List the properties of skeletal muscle and explain any two properties
13. Describe the ventricular events of the heart
14. Differences between NREM and REM sleep
15. Describe the different transport mechanism in the cell briefly

SHORT ANSWERS TYPE (answer any Ten)

10 x 3 = 30 Marks

16. List the different body fluid compartments
17. State Bell magendie law
18. List the Descending tracts
19. Define cardiac output and cardiac index and give its normal value
20. Define resting membrane potential and explain its ionic basis
21. Astrocytes
22. Explain Habituation and Sensitization
23. Renshaw cell inhibition
24. Wallerian degeneration
25. Define fatigue and its causes
26. Features of Brown Sequard syndrome
27. Draw a neat labelled diagram of a sarcomere
