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Rajiv Gandhi University of Health Sciences, Karnataka

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

Time: Three Hours

Max. Marks: 80 Marks

PHYSIOLOGY – (RS3)

Q.P. CODE: 2962

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 cardiac cycle. Explain with the help of a diagram the mechanical changes during cardiac cycle.
2. Describe in detail types of pyramidal tracts with diagram. Add a note on types of paralysis.
3. Describe the molecular basis of skeletal muscle contraction

SHORT ESSAYS TYPE (answer any Six)

6 X 5 = 30 Marks

4. Explain types of learning.
5. Explain types of immunity.
6. Describe classification of muscles.
7. Explain functions of skin.
8. Describe the type II diabetes mellitus with its clinical symptoms.
9. Define arterial blood pressure and add a note on hypertension.
10. Describe the function of insulin.
11. Describe cell nucleus with diagram.

SHORT ANSWERS TYPE (answer any Ten)

10 x 3 = 30 Marks

12. Write the transport mechanism of cell membrane.
13. List out functions of blood.
14. Define respiratory acidosis.
15. Define nocturnal micturition.
16. Write the action of insulin on protein metabolism.
17. Define stroke volume. Give its normal value.
18. Draw a neat diagram of respiratory unit and label it.
19. What is a Motor unit?
20. What is Babinski's sign?
21. List the functions of basal ganglia.
22. List the role of Broca's area for speech development.
23. Write about Blood brain barrier.



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