

# Rajiv Gandhi University of Health Sciences, Karnataka

## MBBS Phase – I Degree Examination - 15-Apr-2025

**Time: Three Hours****Max. Marks: 100 Marks****PHYSIOLOGY – II (RS3)****Q.P. CODE: 1078**

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

**LONG ESSAYS****2 x 10 = 20 Marks**

1. Describe the origin, course, termination and function of corticospinal tract. List two signs of hemiplegia and basis for it.
2. What is normal serum calcium level? Describe the hormonal regulation of serum calcium level. What are the clinical features of tetany?

**SHORT ESSAYS****10 x 5 = 50 Marks**

3. Excitation contraction coupling in skeletal muscle fiber
4. Cushing's Syndrome
5. Referred pain.
6. List the functions of prefrontal lobe
7. Organ of corti
8. Explain three properties of synapse.
9. Explain the refractive errors and their corrections
10. Wallerian degeneration
11. Describe the phases of menstrual cycle.
12. Functions of estrogen.

**SHORT ANSWERS****10 x 3 = 30 Marks**

13. Describe the nerve action potential.
14. Mention any three functions of thyroxine.
15. What is saltatory conduction? What is its importance?
16. Write any three functions of testosterone.
17. What are Somatomedins? What are its actions?
18. Functions of skin
19. List six features of cerebellar disease.
20. Primary taste sensations.
21. Accommodation reflex
22. What is impedance matching?

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