

Rajiv Gandhi University of Health Sciences, Karnataka

II Semester B.O.T Degree Examination – 08-

May-2025

Time: Three Hours

Max. Marks: 100

PHYSIOLOGY – II (OS/RS)

Q.P. CODE: 3416

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

1. Mention the hormones secreted by the posterior pituitary gland. Describe their actions and regulation. What is neuroendocrine reflex? Give one example
2. Classify sensory receptors. Give examples for each. Describe any five properties of receptors
3. Describe the excitation contraction coupling in skeletal muscle. What is the phenomenon of muscle fatigue?

SHORT ESSAYS (Answer any Ten)

10 x 5 = 50 Marks

4. Describe spermatogenesis and list the factors regulating it. Mention the factors causing male infertility
5. Define and classify colour blindness. What is the peculiarity of inheritance of colour blindness?
6. What is the normal serum calcium level? What are the features of tetany?
7. Describe the ionic basis and properties of action potential
8. Neuromuscular junction
9. Describe the physiological changes during pregnancy
10. What is EEG? What are its normal waves? List the changes in EEG during different stages of sleep
11. What is meant by deafness? What are types of deafness and its causes? How is it tested?
12. Name the adrenal medullary hormones and describe their functions
13. Describe the functions of hypothalamus
14. Five differences between smooth muscle and cardiac muscle
15. Describe the stages of complete transection of spinal cord

SHORT ANSWERS (Answer any Ten)

10 x 3 = 30 Marks

16. Mention the functions of ovary
17. Broca's area and its role in speech
18. Properties of smooth muscle
19. Presbyopia and its correction
20. Define menarche, menopause and amenorrhea
21. Rigor mortis and its medico legal importance
22. Name the primary taste sensations. What is agusia?
23. List the methods of contraception in females
24. Differences between upper and lower motor lesions
25. Cerebro spinal fluid and its functions
26. Cushing's syndrome
27. List the features of Grave's disease

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