Rajiv Gandhi University of Health Sciences, Karnataka

II Semester Bachelor of Occupational Therapy Degree Examination – 31-Oct-2026

Time: Three Hours **Max. Marks: 100**

HUMAN 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. Describe the ovarian changes during normal menstrual cycle. Explain their normal basis. Mention the tests for detecting ovulation. What is its importance? Explain the mechanism of fertilization
2. Describe the pain pathway. Write importance features of fast and slow pain
3. Describe the physiological actions and regulation of secretion of insulin

SHORT ESSAYS (Answer any Ten) **10 x 5 = 50 Marks**

4. What is Myasthenia gravis? What are it causes and clinical features? Explain the physiological basis of its treatment
5. Compare REM and Non REM sleep
6. Describe the errors of refraction and their corrections
7. Intrauterine contraceptive devices and their mechanism of action
8. Name the posterior pituitary hormones. Describe their physiological actions
9. Describe the functions of thalamus. Add a note on thalamic syndrome
10. Describe the organization and function of sarcotubular system in the skeletal muscle
11. Describe the functions of tympanic membrane and middle ear ossicles
12. Describe the source and actions of testosterone in fetal life and adult life (at puberty)
13. Give the differences between skeletal, cardiac and smooth muscles
14. Describe the differences between pituitary dwarf and thyroid dwarf
15. Describe the actions of glucocorticoids during stress response

SHORT ANSWERS (Answer any Ten) **10 x 3 = 30 Marks**

16. Taste buds
17. Role of calcium in muscle contraction
18. Fetoplacental unit
19. Mechanism and clinical features of acromegaly
20. Colour blindness
21. Name the secondary sexual characteristics of females
22. Name the functions of rods and cones
23. Define muscle tone. What is its clinical importance?
24. What is Brown sequard syndrome?
25. Resting membrane potential and its ionic basis
26. Name the catecholamines and give two actions
27. Name four features of cerebellar lesions

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