

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - I Degree Examination - December 2010

Time: 3 Hrs.

[Max. Marks: 100]

PHYSIOLOGY - PAPER II (Revised Scheme)

QP Code: 1054

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 9 = 18 Marks

1. Describe in detail the molecular basis of skeletal muscle contraction
2. Name the hormones of anterior pituitary. Describe the functions and regulation of secretion of growth hormone. Give a note on Acromegaly

SHORT ESSAY

10 X 5 = 50 Marks

3. Describe the mechanism of speech
4. Describe the functions of Reticular activating system
5. Name the Glial cells. Describe their functions
6. Explain the role of cerebellum in co-ordination of movements
7. Describe the functions and regulation of secretion of Aldosterone
8. Describe the hormonal regulation of menstrual cycle
9. Describe the hormonal control of breast development and lactation
10. Describe the Young - Helmholtz theory of colour vision
11. Explain pupillary light reflex. Describe the pathways involved in it
12. Outline the steps involved in neuro-muscular transmission of impulse

SHORT ANSWERS

16 X 2 = 32 Marks

13. Explain what is withdrawal reflex
14. Explain what is 'Lead-Pipe' and 'Clasp-Knife' rigidity in what pathological conditions are they found
15. Discuss the functions of angular gyrus
16. Describe the various types of rhythms that make up the electro encephalogram
17. Explain the mechanism of action of thyroxine
18. Name the hormones which produce hyperglycemia
19. Describe the functions of parathyroid hormone
20. Give a note on Myelinogenesis
21. Explain the mechanism of temperature regulation by anterior hypothalamus
22. Explain what is 'shell' temperature and 'core' temperature
23. Explain what is Kline Feltner's syndrome
24. What is hypermetropia? How do you correct it?
25. What is Homonymous Hemianopia? Mention the lesions in the visual pathways that produce it
26. Explain what is Tympanic reflex
27. Explain Weber's test and its significance
28. Describe Taste Pathways