

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - I Degree Examination - August 2006

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. What is a sarcomere? Describe the molecular basis of muscular contraction in skeletal muscle. Add a note on myasthenia gravis.
2. Describe the optic pathway. What are the effects of lesions at various levels of the Optic pathway?

SHORT ESSAY

10 X 5 = 50 Marks

3. Ionic basis of nerve action potential.
4. Describe the auditory pathway.
5. Describe the biosynthesis and functions of thyroxin.
6. Describe the role of hypothalamus as a target for anti fertility agents.
7. Describe the hormonal regulation of blood glucose level.
8. Describe the neural mechanism of Pain. Add a note on acupuncture analgesia
9. Describe the neuro-endocrine interrelationships.
10. What is EEG? Discuss the neurophysiologic basis of EEG?
11. Describe the functions of Hypothalamus
12. Mention the various Brodman's (numbers) in the frontal lobe. Describe briefly each one

SHORT ANSWERS

16 X 2 = 32 Marks

13. Classify nerve fibres
14. Enumerate the electrical properties of nerve
15. Referred pain
16. Tri chromatic theory of colour vision
17. Organ of Corti
18. Prostaglandins
19. Enumerate the different gastrointestinal hormones
20. Write a note on Addison disease.
21. List the different types of the sensory receptors
22. Ascending reticular activating system
23. Draw the reflex arc for patellar tendon reflex
24. Syringomyelia
25. Safe method of family planning
26. Pregnancy tests
27. Endocrine functions of testis
28. Role of oxytocin in female reproduction

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