

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - I Degree Examination - January 2008

Time : 3 Hrs.

[Max. Marks : 100]

PHYSIOLOGY - Paper II (Revised Scheme II)

QP Code: 1078

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

LONG ESSAY

2 X 10 = 20 Marks

1. With the help of suitable diagrams, describe the mechanisms of action of hormones through different system of second messengers
2. List the features of cerebellar disorder. Describe the role of cerebellum in the control of motor functions

SHORT ESSAY

10 X 5 = 50 Marks

3. Hypothalamo-pituitary-gonadal axis in females
4. Cardiovascular and CNS effects of thyroxine
5. Molecular basis of skeletal muscle contraction
6. Endogenous pain inhibiting system
7. Role of hypothalamus in temperature regulation
8. Hearing tests
9. Rennin-angiotensin-aldosterone axis
10. Concept of cerebral dominance (categorization of hemisphere)
11. Immediate cardiovascular changes on exposure to hot climate
12. Errors of refraction

SHORT ANSWERS

10 X 3 = 30 Marks

13. Tests for ovulation
14. Waves of EEG
15. Dermatomal theory of referred pain
16. Effects of insulin on glucose transporters
17. Physiological basis of use of a drug in the treatment of thyrotoxicosis
18. Distal changes in the axon following nerve injury
19. Physiological basis of three features of Addison's disease
20. Rinne's test
21. Explain, why cortisol is not advised in patients with osteoporosis
22. Dissociated anesthesia

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