

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - I Degree Examination - January 2009

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 a suitable diagram, describe the mechanisms of action of growth hormone. Describe the functions of growth hormone
2. Describe the role of spinal cord and medulla in the control of movement and posture

SHORT ESSAY

10 X 5 = 50 Marks

3. Physiology of puberty in females
4. Role of calcium in muscle contraction
5. Ionic basis of nerve action potential
6. Effects of thyroxine on body metabolism
7. Physiological basis of differences in cardiovascular effects of adrenaline & noradrenaline
8. Functions of spinocerebellum
9. Neuromuscular blockers
10. Pathways for fast and slow pain
11. Cardiovascular changes on exposure to cold
12. Mechanisms of colour vision

SHORT ANSWERS

10 X 3 = 30 Marks

13. Role of cyclic GMP as a second messenger
14. Functions of inhibin
15. Alpha-gamma colinkage
16. Functions of prolactin
17. Physiological basis of use of a drug in the treatment of stroke
18. Rheobase
19. Role of vitamin D in the prevention of osteoporosis
20. Functions of parietal lobe of the brain
21. Mechanism of increased BMR in hyperthyroidism
22. Physiological basis of use of a drug in relieving inflammatory pain

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