

Rajiv Gandhi University of Health Sciences

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

Time: 3 Hrs.

[Max. Marks: 90]

PHYSIOLOGY - PAPER II (Old Scheme)

QP Code: 1004

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

LONG ESSAY

2 X 10 = 20 Marks

1. Explain the effects of complete section of spinal cord at T-10 level
2. Explain the synthesis, functions of thyroid hormone. What is "Wolff Chaikoff" effect?

SHORT ESSAY

10 X 5 = 50 Marks

3. What are the functions of reticular formation?
4. Differentiate between upper motor neuron lesion and lower motor neuron lesion
5. Explain the functions of testosterone
6. What is tremor? What are the different types?
7. Name **any two** inhibitory neurotransmitters explain, how they act?
8. Classify cerebellum based on physiological lobes. What are the functions of cerebellum?
9. List the features of Cushing's diseases? Explain the physiological basis of any one feature
10. What is condition reflex? List the characteristics of conditioned reflex
11. What are functions of ADH? What is the mechanism of action?
12. Explain the functions of Oxytocin

SHORT ANSWERS

10 X 2 = 20 Marks

13. Define bell - Magendie law
14. What are Purkinje Samson's images?
15. Name the glucose transporters? And their location
16. Explain cause of glycosuria in diabetes
17. What are the differences between de afferentation and de efferentation
18. What is working memory?
19. What is "Muller's Doctrine" of specific nerve energies
20. What are the functions of insulin?
21. Define Starling's law as applied to skeletal muscle
22. Explain the term 'free load' and 'after load' as applied to skeletal muscle

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