

**Rajiv Gandhi University of Health Sciences**

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

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. Enumerate the Hormones secreted by Adrenal cortex. Describe the actions of Glucocorticoids. Add a note on Cushing's syndrome.
2. Define reflex action. Give different types of classifications of reflexes. Describe four important properties of reflexes.

**SHORT ESSAY****10 X 5 = 50 Marks**

3. Describe the Synthesis of Thyroxine. Describe the clinical features of Hypothyroidism.
4. Describe the actions of Testosterone.
5. Describe Spermatogenesis and factors affecting it.
6. What is referred pain? Give two examples. Describe the theories of referred pain.
7. Enumerate the functions of Hypothalamus. Describe the role of Hypothalamus in food intake.
8. Describe the stages of complete transection of spinal cord.
9. Describe with a neat diagram Olfactory pathway.
10. Describe the mechanism of light and dark adaptation.
11. Describe the mechanism of accommodation. Draw and label accommodation pathway.
12. Enumerate the ways by which heat is lost from the body. Describe the response of the body on exposure to cold.

**SHORT ANSWERS****10 X 2 = 20 Marks**

13. Signs of Tetany.
14. Diabetes insipidus.
15. Milk ejection reflex.
16. Weber Fechner's law.
17. Enumerate the functions of Prefrontal Lobe.
18. Differences between Rem and Nrem sleep.
19. Differences between upper and lower motor Neuron lesion.
20. Atenuation reflex.
21. Functions of Auditory Tube.
22. Core and Shell Temperature.

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