

# Rajiv Gandhi University of Health Sciences

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

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. Describe the detail the endocrine regulation of serum calcium level.
2. Draw diagrams to show the pathways for somatic pain (No explanation needed). Explain 'phantom pain'.

#### SHORT ESSAY

**10 X 5 = 50 Marks**

3. Explain the endocrine basis of stunted growth.
4. Explain the role of antidiuretic hormone.
5. Explain the role of synapses.
6. In a tabular column compare the features of upper motor neuron lesions and lower motor neuron lesions.
7. List four features of diseases of the basal ganglia and explain any one.
8. Explain the mechanisms by which the oral contraceptive pills act.
9. Draw labeled diagrams to show the changes in the ovarian follicle during a menstrual cycle (No explanation needed)
10. Draw a diagram to show the pathway for 'near reflex' in the eye. (No explanation needed)
11. Explain 'pitch discrimination' by the ear.
12. Explain the role of skin in heat loss mechanisms.

#### SHORT ANSWERS

**10 X 2 = 20 Marks**

13. Give the total dioptric power of the eye. Define presbyopia
14. Name the nerves carrying taste sensations from the oral cavity
15. Name the locations in the cerebral cortex: of a) primary visual area b) auditory area
16. Define audiogram
17. Give the significance of a) Blind spot b) Fovea centralis
18. Define amenorrhoea and menopause
19. Name the gonadotrophins
20. Name two secondary sexual characteristics of females
21. Define impotence and infertility
22. Classify the functions of the testes

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