

# Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - I Degree Examination - February 2007

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. Define muscle tone. Describe the regulation of muscle tone.
2. Describe the phases and hormonal control of menstrual cycle.

#### SHORT ESSAY

**10 X 5 = 50 Marks**

3. Enumerate the hormones secreted by anterior pituitary gland. Describe the actions of growth hormone
4. Describe the actions of parathormone. Describe the role of vitamin D in calcium metabolism.
5. Describe the functions of thalamus. Add a note on thalamic syndrome
6. What are the stages of sleep? Describe the changes occurring during REM sleep?
7. Give the classification of receptors. Describe any four properties of receptors
8. Describe how pitch is determined by internal ear?
9. Describe the refractive errors of eye. How they are corrected?
10. Draw and label visual pathway. Describe the effects of lesions at various levels in the pathway
11. Describe the role of hypothalamus in regulation of temperature
12. Functions of liver

#### SHORT ANSWERS

**10 X 2 = 20 Marks**

13. Causes of polyuria in diabetes mellitus and diabetes insipidus
14. Clinical features of acromegaly
15. Physiological basis of pregnancy diagnosing tests
16. Functions of pyramidal tract
17. Law of projection
18. Renshaw cell inhibition
19. Motion sickness
20. Draw flow chart of rhodopsin cycle
21. Draw and label pathway of taste sensation
22. Functions of placenta

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