

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - I Degree Examination - August 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. Describe the actions and regulation of secretion of mineralocorticoids.
2. Draw a labeled diagram of the corticospinal tract and explain hemiplegia.

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

3. Explain the basis of three features of hyperthyroidism.
4. Explain 'hyperphagia' and glycosuria of diabetes mellitus.
5. Draw a labeled diagram of the pathway for fine touch. List other sensations carried by this pathway.
6. Explain the basis of 'mass reflex'.
7. Give the features and significance of 'local potentials'.
8. Describe the role of testosterone in fetal life
9. Describe the actions of estrogens on the mammary gland
10. Draw a labeled diagram of visual pathway (No explanation needed)
11. Give the basis and correction for a) myopia b) presbyopia
12. Explain the role of sweating in temperature regulation

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

13. Define ageusia and anosmia
14. Define dark adaptation and mention a related disorder
15. Define tympanic reflex
16. Name the nerves carrying taste sensations
17. Define audiometry
18. Define gonadotrophins. Name their sources
19. Name the main glands contributing to semen and the percentage contribution of each.
20. Define dysmenorrhoea and amenorrhoea
21. List two complications of cryptorchidism
22. Name two secondary sexual characteristics in males.

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