

Rajiv Gandhi University of Health Sciences

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

Time: 3 Hrs.

[Max. Marks: 90]

PHYSIOLOGY - PAPER I (Old Scheme)

QP Code: 1003

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 basis for the classification of blood groups. Describe the Rh blood group system with its importance
2. Explain the role of arterial baroreceptors after blood loss

SHORT ESSAY

10 X 5 = 50 Marks

3. Describe Haemophilia
4. Outline the effects of severe mismatched blood transfusions
5. Describe the transmission of impulses in myelinated nerve fibres
6. Define deglutition. Describe the stages of deglutition with their regulation
7. Draw and label a normal ECG from lead II. Give the duration and basis of P-R interval
8. Describe the actions of testosterone
9. Define glomerular filtration rate and describe the factors affecting it
10. Explain the molecular basis of muscle contraction
11. Describe the factors affecting coronary circulation
12. Describe oxygen dissociation curve and factors affecting it

SHORT ANSWERS

10 X 2 = 20 Marks

13. List the functions of plasma albumin
14. What is meant by triple response?
15. Anatomical and physiological dead space
16. Define simple diffusion and give two examples
17. Name two anticoagulants with their mechanism of action
18. Insulin clearance test
19. Mention the functions of ovary
20. Define cyanosis. Name the types
21. Mention the functions of a) Mitochondria b) Golgi apparatus
22. Differentiate between red and pale muscle
