

# Rajiv Gandhi University of Health Sciences

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

Time: 3 Hrs.

[Max. Marks: 100]

## PHYSIOLOGY - PAPER I (Revised Scheme)

QP Code: 1053

Your answers should be specific to the questions asked.  
Draw neat labeled diagrams wherever necessary.

### LONG ESSAY

**2 X 9 = 18 Marks**

1. What are chemoreceptors? Describe the chemical control of respiration. Add a note on Cheynes Stokes breathing.
2. Give an account of the principles and methods used to obtain and ECG (Electrocardiograph) record in man. Discuss how an ECG recording helps to evaluate conduction disorders of the heart.

### SHORT ESSAY

**10 X 5 = 50 Marks**

3. Role of lymphocytes in immune mechanism.
4. Describe the fate of hemoglobin of the damaged red blood corpuscle.
5. Describe the movements of the stomach.
6. Achalasia cardia.
7. Describe the renal function tests
8. Describe the haemodynamics of blood flow through the kidneys.
9. Functions of Juxta-Glomerular apparatus.
10. Hyaline membrane disease.
11. Define cardiac output and mention the factors regulating it.
12. Describe the cardiovascular and respiratory adjustments during exercise.

### SHORT ANSWERS

**16 X 2 = 32 Marks**

13. Heparin
14. Functions of plasma proteins
15. Centers of deglutition
16. Obstructive jaundice
17. Erythrocyte sedimentation rate
18. Functions of proximal convoluted tubules
19. Write the Poiseuille Hagen formula
20. Facultative reabsorption of water
21. Explain the cause of the second heart sound
22. Oxygen debt
23. What is Bohr's effect? What is its physiologic significance?
24. Define "Dead Space" air and give its importance
25. Work of breathing
26. Maximal mid expiratory flow rate (MMEFR)
27. A.S. Paintal
28. Deglutition apnoea

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