

# Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - I Degree Examination - July 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. Describe the changes occurring during erythropoiesis. List six substances needed for erythropoiesis
2. Describe the functions and regulation of secretion of thyroxin. What are the clinical manifestation of cretinism

#### SHORT ESSAY

**10 X 5 = 50 Marks**

3. With the help of a graph, explain Starling's law of the heart
4. Name the posterior pituitary hormones. Describe their physiological actions
5. Describe the JG apparatus and give the functions
6. What is myasthenia gravis? What are its clinical features? Explain the basis of its treatment
7. Explain the role of peripheral chemoreceptors in the regulation of respiration
8. Define homeostasis and describe the different control systems of the body with examples
9. Explain the methods of contraception in male
10. Describe the excitation - contraction coupling
11. Diagrammatically represent a normal ECG. Explain the cause for different waves
12. Describe ionic basis and properties of action potential

#### SHORT ANSWERS

**10 X 2 = 20 Marks**

13. Differentiate between first and second heart sound
14. List types of B lymphocytes
15. What is normal ESR? What is its importance?
16. Functions of gastric hydrochloric acid
17. Name the four proteins present in the muscle
18. Name the muscles taking part in quiet inspiration
19. State the functions of transverse tubular system
20. Cyanosis
21. Erythroblastosis foetalis
22. Functions of placenta

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