

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - I Degree Examination – December 2010

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 different blood group systems, Write the importance of ABO system
2. Define blood pressure. Explain the baroreceptor reflex mechanism for regulation of blood pressure

SHORT ESSAY

10 X 5 = 50 Marks

3. Describe distribution of body fluids. How is the ECF volume determined
4. Describe features & diagnosis of any two types of haemorrhagic disorders
5. Describe the role of loop of henle in counter current mechanism. Mention tests to assess functions of loop of henle
6. Describe micturition reflex & add a note on atonic bladder
7. Explain how inspiration & expiration occurs during Quiet breathing
8. Write functions & hormonal regulation of secretion of pancreatic juice
9. Describe the conducting system of heart
10. Triple response
11. Give normal values of forced vital capacity and timed vital capacity. Discuss their clinical significance
12. Enumerate functions of liver

SHORT ANSWERS

10 X 2 = 20 Marks

13. Draw a neat labeled diagram of action potential of a nerve fibre
14. Delayed hypersensitivity reaction
15. What is chronaxie? What does it indicate
16. Define T_M for glucose & give its normal value
17. Draw neat diagram of Respiratory Membrane
18. Ejection fraction
19. Dyspnoeic index
20. Source of secretin & its actions
21. State marey's law & give one exception for this law
22. Sham feeding