

Rajiv Gandhi University of Health Sciences, Karnataka

MBBS Phase I Degree Examination - JULY 2015

Time: Three Hours

Max. Marks: 90 Marks

PHYSIOLOGY Paper I (Old Scheme) Q.P. 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. Define cardiac output and cardiac index. Explain various factors regulating cardiac output. Add a note on high output cardiac failure. (2+6+2)
2. Describe the neuromuscular transmission and pathophysiology of Myasthenia Gravis. Enumerate neuromuscular blocking agents. (6+2+2)

SHORT ESSAY

10 x 5 = 50 Marks

3. Physiological features of coronary circulation
4. Platelets
5. Deglutition reflex
6. Rh factor
7. T lymphocyte
8. Process of glomerular filtration
9. Peripheral chemoreceptors and their effect on ventilation
10. Oxyhaemoglobin dissociation curve
11. Feedback mechanisms
12. Functions of a parietal cell in a gastric gland

SHORT ANSWERS

10 x 2 = 20 Marks

13. How absolute refractory period differs in cardiac and skeletal muscle?
14. Differences between innate and acquired immunity
15. Actions of CCKPZ
16. CO₂ transfer at respiratory membrane
17. Cortical versus juxtamedullary nephrons
18. Functional residual capacity - definition and significance
19. Write the differences between graded potential and action potential.
20. Define Rheobase and chronaxie.
21. Breathing reserve
22. Neural control of defaecation reflex
