

## 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  $2 \times 10 = 20 \text{ Marks}$ 

- 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  $10 \times 5 = 50 \text{ Marks}$ 

- 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 ANWERS 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. CO<sub>2</sub> 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

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