



## Rajiv Gandhi University of Health Sciences, Karnataka

MBBS Phase I Degree Examination - June 2014

**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 cycle. Describe in detail the ventricular events with appropriate diagrams.
2. Draw a diagram of neuromuscular junction and discuss the neuromuscular transmission. Add a note on neuromuscular blockers.

#### **SHORT ESSAY**

**10 x 5 = 50 Marks**

3. Ionic basis of resting membrane potential
4. Starling's hypothesis
5. Mechanism of clotting
6. Cell mediated immunity
7. Excitation contraction coupling
8. Functions of saliva
9. Phases of gastric secretion
10. Auto-regulation
11. Micturition reflex
12. Timed vital capacity

#### **SHORT ANSWERS**

**10 x 2 = 20 Marks**

13. Refractory period
14. List any two incompatible transfusion reactions.
15. List the Vit K dependent clotting factors.
16. Differences between liver bile and gall bladder bile
17. State the law of peristalsis.
18. Differences between cortical and juxtamedullary nephrons
19. List any non-excretory functions of kidney.
20. Uses of surfactant
21. List the factors, which shift the Oxygen-Hemoglobin Dissociation Curve to the right.
22. Name any two methods of measurement of cardiac output.

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