

# Rajiv Gandhi University of Health Sciences, Karnataka

MBBS Phase - I Degree Examination OCT-2017

**Time: Three Hours**

**Max. Marks: 100 Marks**

## **Physiology - I (RS2 & RS3)**

**Q.P. CODE: 1077**

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

### **LONG ESSAYS**

**2 x 10 = 20 Marks**

1. Describe in detail the digestion and absorption of fats. Add a note on Steatorrhea.
2. Describe the leads of ECG, various waves, intervals and segments of a normal ECG

### **SHORT ESSAYS**

**10 x 5 = 50 Marks**

3. Factors affecting Venous return
4. Functions of Gastric juice secretion
5. Mismatched Blood transfusion reactions
6. Functions of Reticulo – endothelial system
7. Functions of T-Lymphocytes
8. Counter current multiplier system in kidney
9. Cystometrogram
10. Lung compliance
11. Locations and functions of centres of respiration
12. Explain dyspnoea and apnoea with examples.

### **SHORT ANSWERS**

**10 x 3 = 30 Marks**

13. What is the physiological basis of Autorhythmicity?
14. Define Frank-Starling's law.
15. What is the normal platelet count? Give two functions of platelets.
16. List the functions of Neutrophils
17. What are Chylomicrons? What are their functions?
18. Secondary active transport
19. Name the buffers of renal tubules.
20. Sinus arrhythmia
21. List three functions of saliva.
22. What is Ventilation : Perfusion ratio (VA/Q)? Give its normal value.