

# Rajiv Gandhi University of Health Sciences, Karnataka

## MBBS Phase – I Degree Examination - 14-Aug-2024

**Time: Three Hours****Max. Marks: 100 Marks****PHYSIOLOGY – I (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. Explain the mechanism and regulation of gastric secretion.
2. Define stroke volume and cardiac output and give their normal values. Explain the factors regulating cardiac output.

**SHORT ESSAYS****10 x 5 = 50 Marks**

3. Intrinsic pathway of blood coagulation
4. Mechanism of humoral immunity
5. Functions of Neutrophils
6. Explain the waves of **Lead II** ECG with a diagram.
7. Define glomerular filtration rate. Describe the factors regulating it.
8. Dead space
9. Chemical regulation of respiration
10. Functions of saliva.
11. Micturition reflex.
12. Heart sounds.

**SHORT ANSWERS****10 x 3 = 30 Marks**

13. Ionic basis of resting membrane potential
14. What is cross matching? What are its types
15. What is Cushing's reflex
16. What is Triple response
17. What is Bohr effect
18. What is Histotoxic hypoxia? Give an example.
19. What is cyanosis? What are its types
20. Peristalsis.
21. List the functions of Juxta-glomerular apparatus.
22. Artificial kidney.

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