

# Rajiv Gandhi University of Health Sciences, Karnataka

## MBBS Phase – I Degree Examination - 29/Sep/2025

**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. Define cardiac output and give its normal value. Describe the factors affecting cardiac output. Add a note on measurement of cardiac output
2. Define glomerular filtration rate. Describe the factors regulating it.

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

3. Conducting system of the heart.
4. Describe steps involved in Phagocytosis
5. Describe extrinsic method of coagulation. Add a note on anticoagulants.
6. List the gastro intestinal hormones. Describe any two of them.
7. Functions of bile.
8. Name and describe different types of Hypoxia
9. Long term regulation of BP
10. Features of coronary circulation.
11. Types of shock with examples
12. Sodium potassium pump.

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

13. Law of gut
14. Functional residual capacity
15. Indications for blood transfusion
16. Hypotension.
17. Bohr's effect.
18. Substances used to measure total body water and ECF (Extra Cellular Fluid) space
19. Landsteiner's law
20. List the functions of HCl in stomach.
21. Sham feeding
22. Gall stones

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