

# Rajiv Gandhi University of Health Sciences, Karnataka

## MBBS Phase – I Degree Examination - 11-Apr-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. Describe the composition, functions and regulation of gastric juice secretion.
2. Define cardiac cycle. Describe the mechanical events of cardiac cycle.

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

3. Cardiovascular changes during muscular exercise
4. Describe the phases of deglutition.
5. Rh incompatibility
6. Classify Hypoxia. Explain any two of them.
7. Describe the conducting system of the heart.
8. Micturition reflex
9. Immunoglobulins
10. Artificial respiration
11. Intercellular communication
12. Intrinsic mechanism of blood coagulation

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

13. Three special features of coronary circulation
14. Herring - Breuer reflexes
15. Non excretory functions of kidneys
16. Define GFR and give its normal value and name factors affecting it.
17. Name two anticoagulants. Give their mechanism of action.
18. Define Tidal volume and residual volume. Give their normal values.
19. List the functions of bile.
20. Laboratory classification of Anaemia
21. Cyanosis
22. Define transport maximum for glucose. Give its normal value.

\*\*\*\*\*