Rajiv Gandhi University of Health Sciences, Karnataka

I Semester Bachelor of Occupational Therapy Degree Examination – 27-Oct-2026

Time: Three Hours **Max. Marks: 100**

HUMAN PHYSIOLOGY – I (RS)
Q.P. CODE: 3412

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two) **2 x 10 = 20 Marks**

1. Describe the mechanics of breathing.
2. Define cardiac output. Give its normal value. Discuss the factors affecting cardiac output.
3. Name the clotting factors. Describe the intrinsic pathway of blood coagulation

SHORT ESSAYS (Answer any Ten) **10 x 5 = 50 Marks**

4. Define acclimatization. Discuss the changes during acclimatization.
5. What is hemoglobin? Write its functions. Add a note on Thalassemia.
6. Composition and functions of gastric juice.
7. Describe reabsorption of water from renal tubules.
8. Briefly explain the oxygen- dissociation curve with a neat labelled diagram.
9. Define shock. Describe the types of shock.
10. Describe the properties of WBCs.
11. Draw and explain ECG waves.
12. Describe the digestion and absorption of carbohydrates in the digestion system.
13. What is pulmonary surfactant? Explain its functions.
14. Define GFR. Give its normal value. Explain its regulation.
15. Movements of large intestine.

SHORT ANSWERS (Answer any Ten) **10 x 3 = 30 Marks**

16. Functions of Platelets.
17. Structure of Nephron.
18. Achalasia cardia.
19. Structure and function of Mitochondria and Golgi apparatus.
20. Cardiovascular changes during exercise.
21. Steatorrhea.
22. Functions of skin.
23. Compensatory mechanism when exposed to cold climate.
24. Renal function tests.
25. Triple response.
26. Define PCV. Give its normal values. Mention its clinical significance.
27. Periodic breathing.

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