

# Rajiv Gandhi University of Health Sciences, Karnataka

## I Semester Bachelor of Occupational Therapy Degree Examination – 12-Nov-2025

Time: Three Hours  
100

Max. Marks:

### 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 mechanism of urine formation.
2. Define cardiac cycle and explain the events occurring during cardiac cycle.
3. Composition, functions and regulation of Pancreatic juice secretion. Add a note on Acute pancreatitis.

#### SHORT ESSAYS (Answer any Ten)

10 x 5 = 50 Marks

4. Chemical regulation of respiration.
5. Describe the reabsorption of glucose in renal tubules.
6. Describe the movements of small intestine
7. Describe short term regulation of blood pressure.
8. Explain Active transport.
9. Describe the functions of skin.
10. Define blood transfusion. Discuss hazards of mismatched blood transfusion.
11. Explain the functions of bile juice.
12. Define cardiac output. Give its normal value. Write the factors affecting cardiac output
13. Define lung compliance. Give its normal value. What are its types.
14. Explain the functions of kidney.
15. Define Anemia. Classify anemia with examples.

#### SHORT ANSWERS (Answer any Ten)

10 x 3 = 30 Marks

16. Functions of plasma proteins.
17. Jugular venous pressure.
18. Functions of Gastrin.
19. Caisson disease.
20. Renal failure.
21. Sino aortic reflex.
22. Phagocytosis.
23. Respiratory changes during exercise.
24. Purpura.
25. Artificial respiration.
26. Arrhythmias.
27. Structure of Nephron.

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