

# Rajiv Gandhi University of Health Sciences, Karnataka

Second Semester B.Pharm Degree Examination – 14/Oct/2025

**Time: Three Hours**

**Max. Marks: 75**

## **Human Anatomy and Physiology-II Q.P. CODE: 5005**

Your answers should be specific to the questions asked

Draw neat labeled diagrams wherever necessary

All the questions are compulsory

### **LONG ESSAYS**

**2 x 10 = 20 Marks**

1. Explain the structure of the brain with the help of neat labelled diagram. Write two functions of each part of the brain.

**OR**

With a neat labelled diagram, describe the structure of nephron. Explain physiology of urine formation.

2. Explain anatomy and physiology of adrenal gland.

### **SHORT ESSAYS**

**7 x 5 = 35 Marks**

3. Describe the composition and functions of cerebrospinal fluid.

**OR**

Explain the structure and functions of thymus gland.

4. Describe the exocrine and endocrine secretions of pancreas.

**OR**

Explain transport of oxygen and carbon dioxide.

5. List of the hormones of anterior pituitary gland and explain their functions.

6. Write the anatomy of salivary glands. Describe the composition and functions of saliva.

7. Explain the role of insulin in the regulation of blood sugar level.

8. Describe the structure and functions of liver.

9. With a neat labelled diagram. Explain anatomy of lungs.

### **SHORT ANSWERS**

**10 x 2 = 20 Marks**

10. List out the hormones of stomach.

11. **Define synapse and reflex arc.**

12. Define tidal volume and ERV

13. Define anorexia and peptic ulcer.

14. Write the organisation of CNS.

15. Explain hyperthyroidism and hypothyroidism.

16. Define protein synthesis and inheritance.

17. Write the functions of oxytocin.

18. Mention the functions of ovary.

19. Write the difference between somatic and autonomic nervous system.

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