

# Rajiv Gandhi University of Health Sciences, Karnataka

**First Semester B. Pharm Degree Examination – 25-Apr-2025**

**Time: Three Hours**

**Max. Marks: 75**

## **HUMAN ANATOMY AND PHYSIOLOGY - I**

**Q.P. CODE: 5001**

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. Briefly discuss the mechanism of coagulation of blood and enlist the clotting factors.

**OR**

Draw a neat labelled diagram of a cell and mention the functions of each organelle of a cell.

2. Draw a neat labelled diagram of eye. Explain the physiology of vision.

### **SHORT ESSAYS**

**7 x 5 = 35 Marks**

3. Write the structure and functions of lymph node.

**OR**

Describe the physiology of skeletal muscle contraction.

4. Write down the constituents and functions of plasma.

**OR**

Discuss the properties and functions of skeletal, smooth and cardiac muscles.

5. Explain the structure and composition of bone.

6. Explain the physiology of hearing.

7. Classify WBC. Write the morphology and functions of leucocytes.

8. Explain the conduction system of the heart.

9. Classify joints with suitable examples.

### **SHORT ANSWERS**

**10 x 2 = 20 Marks**

10. List the bones of axial skeleton.

11. Write the functions of cell membrane.

12. Define pinocytosis and phagocytosis.

13. What is neuromuscular junction?

14. Classify peripheral nervous system.

15. What is Rh factor? Mention its significance.

16. Define cardiac arrhythmia and hypertension.

17. Write the composition of lymph.

18. Write the normal value of haemoglobin and platelets.

19. Mention the functions of skin.

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