

# Rajiv Gandhi University of Health Sciences, Karnataka

First Semester B. Pharm Degree Examination – 28-May-2024

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. Describe the various steps involved in erythropoiesis. Write the general factors influencing the process of erythropoiesis.  
**OR**  
Explain the origin and conduction of heart beat with the help of a neat labelled diagram.
2. Draw a neat labelled diagram of ear. Explain the physiology of hearing.

### SHORT ESSAYS

**7 x 5 = 35 Marks**

3. Explain ABO system of blood grouping and its significance.  
**OR**  
Write the structure and functions of skin.
4. What are joints? Classify joints with examples.  
**OR**  
Explain the mechanism of blood coagulation.
5. Draw a neat labelled diagram of eye.
6. Write the differences between sympathetic and parasympathetic nervous system.
7. Write the structure and functions of spleen.
8. Explain the structure of muscular tissues with examples.
9. Write the composition of blood and mention their functions.

### SHORT ANSWERS

**10 x 2 = 20 Marks**

10. Write the functions of mitochondria.
11. Define Polycythemia and Haemophilia.
12. Define glaucoma and cataract.
13. Define congestive heart failure and angina pectoris.
14. What are rods and cones? Mention their role in vision.
15. Write the normal value of RBC and WBC and their life span.
16. Write the functions of skeletal system.
17. What is erythroblastosis fetalis?
18. List of the factors for the regulation of blood pressure.
19. Name the bones of appendicular skeleton.

\*\*\*\*\*