

# Rajiv Gandhi University of Health Sciences, Karnataka

First Semester B. Pharm Degree Examination – 15-Nov-2022

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. Explain the structure of ear and physiology of hearing.  
**OR**  
Explain the various events of cardiac cycle with a neat labelled diagram.
2. Describe the stages of erythropoiesis and factors affecting in detail.

### SHORT ESSAYS

**7 x 5 = 35 Marks**

3. Explain circulation and functions of lymphatic system.  
**OR**  
Classify skeletal system and write the functions of bones.
4. Explain the structure and functions of skin.  
**OR**  
Explain the structure and role of platelets in blood clotting.
5. Explain the structure and functions of lymph nodes.
6. Explain with a neat labelled diagram conducting system of heart.
7. Explain the regulation of blood pressure.
8. Explain the structure of Epithelial tissues with one example.
9. Explain ABO blood grouping? Write its significance in blood transfusion.

### SHORT ANSWERS

**10 x 2 = 20 Marks**

10. Write the difference between smooth muscle and cardiac muscle.
11. Mention the bones of the lower limb.
12. Define polycythaemia and hemophilia.
13. Define diffusion and osmosis.
14. What is synaptic cleft? State its function.
15. Define Atherosclerosis and Angina pectoris.
16. Write the functions of leucocytes.
17. Write about rods and cones.
18. Name different cell junctions.
19. Define osteoporosis and arthritis.

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