

# Rajiv Gandhi University of Health Sciences, Karnataka

## I Year B. Pharm Degree Examination – 29-May-2023

**Time: Three Hours****Max. Marks: 70 Marks****HUMAN ANATOMY AND PHYSIOLOGY (RS - 4)****Q.P. CODE: 2625**

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. Write the division of nervous system. Discuss the physiology of autonomic nervous system.
2. Give an account of transport of respiratory gases in the blood.
3. What is Cardiac cycle? Describe the various principle events of cardiac cycle.

**SHORT ESSAYS (Answer any Six)****6 x 5 = 30 Marks**

4. Draw a neat labeled diagram of cell and write the functions of plasma membrane.
5. Describe the structure and functions of spleen.
6. Explain the physiology of hearing.
7. Write the mechanism of urine formation.
8. Explain the regulation of Renin-angiotensin-aldosterone pathway.
9. Briefly discuss the mechanism of blood coagulation.
10. Explain how digestion and absorption takes place in small intestine.
11. Explain the process of spermatogenesis.

**SHORT ANSWERS****10 x 2 = 20 Marks**

12. Name the bones of axial skeleton.
13. What is hemophilia and polycythemia?
14. Define vital capacity. Write its normal value.
15. Enlist the hormones secreted by neurohypophysis and mention its functions.
16. Define angina pectoris and cardiac arrhythmia.
17. Write the functions of medulla oblongata.
18. What you understand by Myasthenia Gravis?
19. Name the sex hormones of male and female and mention their functions.
20. Draw a neat labelled diagram of nephron.
21. Define hypoxia and asphyxia.

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