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**Rajiv Gandhi University of Health Sciences, Karnataka**  
**First Semester B. Pharm Degree Examination – 02-Jan-2020**

**Time: Three Hours**

**Max. Marks: 75 Marks**

**HUMAN ANATOMY AND PHYSIOLOGY - I**

**Q.P. CODE: 5001**

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. What is cardiac cycle? Explain the various events of cardiac cycle.
2. What are the divisions of ANS? Write the structure and functions of sympathetic and para sympathetic nervous system.
3. Discuss various stages of erythropoiesis and explain the factors influencing erythropoiesis.

**SHORT ESSAYS (Answer any Seven)**

**7 x 5 = 35 Marks .**

4. Name different factors required in coagulation. Discuss the mechanism of clotting.
5. What are joints? Classify joints with examples.
6. Explain the structure of eye with neat labelled diagram.
7. Explain pulmonary and systemic circulation with diagram.
8. Classify epithelial tissues with examples. Explain their functions.
9. Explain the structure and functions of skin.
10. Explain the physiology of skeletal muscle contraction.
11. What is homeostasis? Explain the general mechanism of action of regulation of homeostasis.
12. Draw a neat labelled diagram of ear. Write the physiology of hearing.

**SHORT ANSWERS**

**10 x 2 = 20 Marks**

13. Define passive and active transport.
14. Draw a labelled diagram of neuron.
15. Angina pectoris and CHF.
16. Functions of nucleus and mitochondria.
17. Write the normal value of RBC and WBC.
18. Name any four cranial nerves with functions.
19. Write the functions of reflex activity.
20. Name the bones of upper limb.
21. Write the composition of lymph.
22. Write the functions of spleen.

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