



# Rajiv Gandhi University of Health Sciences, Karnataka

I Year Pharm-D Examination – 02-Jan-2020

**Time: Three Hours**

**Max. Marks: 70 Marks**

## **HUMAN ANATOMY & PHYSIOLOGY**

**Q.P. CODE: 2851**

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? Describe various events of cardiac cycle.
2. Write a neat labeled diagram of eye and explain the physiology of vision.
3. Draw a neat labeled diagram of nephron. Describe the physiology of urine formation.

### **SHORT ESSAYS (Answer any Six)**

**6 x 5 = 30 Marks**

4. Describe the functions of Golgi complex and mitochondria.
5. List out the various enzymes present in the secretions of GIT.
6. Mention the anatomical location and functions of the following structures:  
a) Basal ganglia. b) Thalamus.
7. Write a note on Renin-Angiotensin-aldosterone system.
8. Write the functions of insulin and glucagon.
9. Explain spermatogenesis.
10. Classify joints with examples.
11. Explain ABO system of blood grouping.

### **SHORT ANSWERS**

**10 x 2 = 20 Marks**

12. Mention the ear ossicles and their location.
13. What is Myasthenia gravis?
14. Enlist the drugs used by athletes.
15. Write the composition of bile.
16. What is cardiac output? How it is calculated?
17. Write about the functions of spleen.
18. What is the difference between plasma and serum?
19. What is glaucoma?
20. Name Gonadotrophins and give their functions.
21. Write stages of formation of RBC

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