



# Rajiv Gandhi University of Health Sciences, Karnataka

I Year Pharm-D Examination – NOV-2017

**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. Mention the hormones of pituitary gland and write the functions of each.
2. Define Sympathetic and Parasympathetic system and discuss their anatomical and physiological differences.
3. What is cardiac cycle? Describe the various events of cardiac cycle.

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

**6 x 5 = 30 Marks**

4. Explain the differences among skeletal, smooth and cardiac muscles
5. Write the composition and functions of bone.
6. Describe the ABO system of blood grouping.
7. Write a note on lymph and its functions.
8. Explain physiology of skeletal muscle contraction.
9. Discuss internal and external respiration.
10. Explain how digestion takes place in stomach.
11. Write a note on menstrual cycle.

### **SHORT ANSWERS**

**10 x 2 = 20 Marks**

12. Effects of exercise on respiration.
13. Draw neat labeled diagram of a neuron.
14. What is renal clearance test? Mention its significance.
15. What is a vasectomy and tubectomy?
16. Define Acromegaly and Gigantism.
17. What is cardiac output? How it is calculated?
18. Name the ventricles present in the brain.
19. Write the composition of bile.
20. Define Hypoxia and Asphyxia
21. What is hemophilia?

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