



# Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.P.T. Degree Examination - 25-Jan-2021

Time: Three Hours

Max. Marks: 100 Marks

## HUMAN PHYSIOLOGY (RS5)

Q.P. CODE: 2732

Your answers should be specific to the questions asked.  
Draw neat, labeled diagrams wherever necessary.

### LONG ESSAYS (Second Question Choice)

2 x 10 = 20 Marks

1. Define cardiac cycle. Explain the changes taking place during the phases of Cardiac cycle.
2. Name the hormones of anterior pituitary and describe the actions and disorder of any one hormone.

OR

With the help of a graph explain length-tension relationship of skeletal muscle contraction.

### SHORT ESSAYS (Question No 3 & 12 choice)

10 x 5 = 50 Marks

3. Functions of pancreatic juice

OR

Briefly describe the stages of erythropoiesis. Enumerate the non-dietary factors.

4. Explain the mechanism of triple response.
5. Give a brief account of chemical regulation of respiration.
6. Describe the immunological tests of pregnancy.
7. Define jaundice. Write the features of the different types of jaundice.
8. Enumerate the posterior pituitary hormones. Discuss the physiological action of each.
9. List the four functions of the middle ear. Explain any one.
10. What is a synapse? List the different types of synapses and discuss any four properties.
11. Enumerate the functions of basal ganglia.
12. Draw a schematic diagram to show the intrinsic pathway of coagulation.

OR

What is color vision? How do you test it clinically? Classify color blindness.

### SHORT ANSWERS

10 x 3 = 30 Marks

13. Define menopause. Write any four features.
14. Differentiate between exocytosis and endocytosis.
15. Define dead space. Define the types of dead space.
16. What is a motor unit? Draw a neat labeled diagram.
17. State All or None law.
18. Define peripheral resistance. Enumerate its factor.
19. Enumerate the functions of angiotensin II.
20. What is MCV? Give its normal value.
21. Define the mechanisms of neurocrine, autocrine and endocrine.
22. Define resting membrane potential.