

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.P.T. Degree Examination – 14-Dec-2022

Time: Three Hours

Max. Marks: 100 Marks

HUMAN PHYSIOLOGY (RS - 5)

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 a motor unit. With the help of diagrams explain its role in skeletal muscle contraction.
2. Discuss briefly the mechanisms in regulating the arterial blood pressure in our body.

Or

Using a diagram describe the structure of a muscle spindle. Tabulate differences between UMNL and LMNL.

SHORT ESSAYS (Question No.3 & 12 choice)

10 x 5 = 50 Marks

3. Describe the neural regulation of respiration.

Or

With help of a diagram explain briefly the mechanism of Wallerian degeneration.

4. List the composition and functions of gastric juice.
5. Define Anemia. Briefly explain the clinical classification of Anemia.
6. Explain flexion withdrawal reflex with a diagram.
7. Explain the functions of middle ear.
8. Describe the physiological actions of growth hormone on the body.
9. Define GFR and give its normal value. Mention the factors regulating GFR
10. How is image formation altered in myopia and Hypermetropia? How do you correct them?
11. Tabulate the differences between the I and II heart sounds.
12. What is referred pain? Give two examples. Explain its basis.

Or

With the help of a diagram compare the impulse transmission in a myelinated and non-myelinated nerve fibre

SHORT ANSWERS

10 x 3 = 30 Marks

13. Define triple response. Write its components.
14. Write the functions of endoplasmic reticulum and Golgi apparatus.
15. State Starling's law of force of contraction.
16. Define Cardiac output.
17. Write any three functional differences between rods and cones.
18. Define dead space and the types of dead space.
19. Write the features of diabetes mellitus.
20. Define Chronaxie and Rheobase.
21. List the functions of kidney.
22. What is hypoxia? Enumerate the types of hypoxia.
