

Rajiv Gandhi University of Health Sciences, Karnataka

1 Year B.P.T. Degree Examination — APRIL-2019

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 (Answer any Two)

2 X 10 = 20 Marks

1. Define upper motor neuron, lower motor neuron. Differentiate between UMNL and LMNL,
2. With the help of a graph explain the mechanics of ventilation.
3. Define a motor unit. Explain its role in muscle contraction.

SHORT ESSAYS (Answer any Twelve)

12 x 5 = 60 marks

4. Define Anemia. Briefly discuss the clinical classification of Anemia.
5. List the composition of saliva and mention its functions.
6. Explain Bohr's effect and Haldane effect.
7. List four methods of contraception in the males and females.
8. Explain the mechanism of Wallerian degeneration.
9. Discuss the resorption of Sodium and its regulation adapted by the kidneys.
10. Enumerate the anterior pituitary hormones. Explain the functions of growth hormone.
11. Describe the features of motor homunculus.

12. Briefly explain the respiratory changes taking place during exercise..
13. Enumerate the secondary sexual characteristic in a male.
14. Describe the body mechanisms by which it tolerates cold environment.
15. Briefly discuss the events in second phase of deglutition.
16. With a neat labeled diagram outline the conducting system of the heart.
17. Tabulate the differences between i and U heart sound5.

SHORT ANSWERS

10 x 2 = 20 Marks

18. Trace the olfactory pathway.
19. Define chloride shift.
20. State the Starling law of force of contraction.
21. Draw a cystometrogram.
22. Define bradycardia. Mention two conditions in which it occurs.
23. What is Hering Breuer's reflex??
24. Functions of Ribosome and Mitochondria
25. Enumerate the mechanisms by which body loses heat.
26. What is myxedema? Enumerate any four clinical features. 27,

What is Rouleaux formation?