

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.P.T. Degree Examination APRIL-2019

Time; Three Hours

Max. Marks: 100 Marks

HUMAN PHYSIOLOGY (R S-3 & RS-4)**Q.P. CODE: 2702**

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 and lower motor neuron, Differentiate between UMNL and LMNL.
2. With the help of a graph explain the mechanics of ventilation.
3. What is a sarcomere? Explain the role of a sarcomere in skeletal muscle contraction.

SHORT ESSAYS (Answer any Twelve)**12 x 5 = 60 Marks**

4. Celine Anemia. Briefly discuss the clinical classification of anemia,
5. Explain Bohr's effect and Haldane effect.
6. List four methods of contraception in the males and females.
7. Explain the mechanism of Vcalleryan degeneration.
8. Trace the olfactory pathway.
- 9, Enumerate the anterior pituitary hormones. Explain the functions of growth hormone.
10. Tabulate the differences between the I and H heart sounds.
11. Describe the features of motor homunculi.
12. Describe the respiratory changes taking place during exercise.
13. With a labeled diagram explain micturition reflex.
14. Enumerate the secondary sexual characteristic in a male.
15. What is crossed extensor reflex? Explain Its mechanism,
16. Describe the body mechanisms by which it tolerates cold environment.
17. Describe the events in second phase of deglutition.

SHORT ANSWERS**10 x 2 = 20 Marks**

18. Differentiate between simple and facilitated diffusion,
19. Draw a Cystornetrogram_
- 20, Define bradycardia. Mention two conditions in which it occurs.
21. What is Hering Breuer's reflex?
22. Define ovulation. Give its hormonal basis. On which day of the cycle does it occur?
23. Functions of R.bose and Mitochondria
24. What is Myxedema? Enumerate any four clinical features.
25. Enumerate the mechanisms by which body loses heat,
26. What is Rouleaux formation?
27. Components of the reflex arc