

PHYSIOLOGY - II (RS2 & RS3)**QP Code: 1078**

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

LONG ESSAY**2 X 10 = 20 Marks**

1. Describe the dorsal column tract and its functions. How its functions are affected in Brown Sequard's syndrome?
2. Describe the steps involved in the synthesis of thyroxine. Explain its physiological functions.

SHORT ESSAY**10 X 5 = 50 Marks**

3. Regulation and actions of aldosterone
4. Clinical features of Cushing's syndrome
5. Hormonal functions of placenta
6. Dark adaptation and nyctalopia
7. Write about storage, release, functions and reuptake of ionic calcium in skeletal muscle.
8. Describe the process of neuromuscular transmission in skeletal muscle.
9. What is EEG? Discuss normal findings of Electro Encephalogram (EEG) in various sleep stages.
10. Difference between Upper Motor Neuron and Lower Motor Neuron lesions
11. Functions of middle ear
12. Body mechanisms activated with exposure to cold

SHORT ANSWERS**10 X 3 = 30 Marks**

13. Draw the main connections of neocerebellum with cerebral cortex.
14. Enumerate any three functions of vestibular apparatus.
15. Name three touch receptors. Enumerate three properties of them.
16. Cause and effect of Leutinizing Hormone surge
17. Name two methods for detection of pregnancy. Write about their physiological basis.
18. Differentiate rods from cones.
19. Draw taste pathway from anterior 2/3 of tongue to the cortex.
20. Differentiate endolymph from perilymph.
21. Write two functional differences between cardiac and skeletal muscle.
22. Write three differences between A and C type of nerve fibres.

* * * * *