

Time : 3 Hrs.

[Max. Marks: 100]

**PHYSIOLOGY - PAPER II**  
**(RS 2 & RS 3)**

**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. Classify sensory receptors with an example for each. Describe any five properties of receptors
2. Describe the structure of Neuro Muscular Junction and the mechanism of transmission of impulse across neuromuscular junction of skeletal muscle

**SHORT ESSAY**

**10 X 5 = 50 Marks**

3. Describe the functions of Basal ganglia
4. Describe the endometrial changes during menstrual cycle
5. Differences between UMN and LMN lesions
6. Principal actions of Insulin
7. Role of hypothalamus in regulation of body temperature
8. Explain the changes during Wallerian degeneration and regeneration of injured nerve fibers
9. Describe the Errors of refraction and their correction
10. Give an account of Acromegaly
11. Describe the actions of testosterone
12. Contents and functions of middle ear

**SHORT ANSWERS**

**10 X 3 = 30 Marks**

13. Name the primary taste sensations. What is Aguesia
14. What is aphasia? What are its types
15. What is the normal serum calcium level? List the hormones regulating it
16. What is Aldosterone escape
17. Draw and label a sarcomere in the relaxed state
18. Draw and label olfactory pathway
19. What is the mechanism of action of oral contraceptives
20. What is the normal intra ocular pressure? What is its clinical significance
21. What is phantom limb? What is its physiological basis
22. List the clinical features of cretinism

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