



Time: 3 Hrs.

[Max. Marks: 100]

**PHYSIOLOGY - PAPER II (Revised Scheme)**

**QP Code: 1054**

Your answers should be specific to the questions asked.  
Draw neat labeled diagrams wherever necessary.

**LONG ESSAY**

**2 X 9 = 18 Marks**

1. Illustrate the Ovarian, endometrial and hormonal changes in menstrual cycle. What is amenorrhea and when does it occur physiologically?
2. Describe the pupillary reflexes and their pathways. Add a note on Argyll – Robertson pupil

**SHORT ESSAY**

**10 X 5 = 50 Marks**

3. Describe the Righting Reflexes, their significance and neural level of integration
4. Describe the circulation and functions of Cerebro Spinal Fluid (CSF)
5. What are the effects of Hemisection of spinal cord?
6. Describe the mode of Hypothalamic regulation of pituitary hormones
7. Describe the characteristics of REM (Rapid Eye Movement) sleep
8. Describe neuro endocrine reflexes with examples
9. How is Crossed Extensor reflex elicited? Draw a diagram of its neural circuit and mention its purpose
10. What are the types of summation and how are they demonstrated?
11. Describe briefly the principal actions of Insulin
12. Draw a sketch of nerve action potential, label its components and explain their causation.

**SHORT ANSWERS**

**16 X 2 = 32 Marks**

13. Name some abnormal involuntary movements and the sites of lesion
14. Define Rheobase, utilization time and Chronaxie
15. What are the locations of osmo receptors and their functions?
16. Name the factors necessary for spermatogenesis
17. Mention the differences between local potential and action potential
18. What is Laron Dwarfism and its causes?
19. What is Cryptorchidism and its effects on testis?
20. Where is aqueous humor distributed in the eye and what are its functions?
21. Name the middle ear ossicles. What are their functions in sound transmission?
22. What is Fovea centralis and why it has highest visual acuity?
23. What are the causes for latent period in simple muscle twitch?
24. Name two anticholinesterase drugs acting at neuro muscular junction
25. name any two special features of olfactory sensation
26. Name the thermoreceptors in the skin
27. Name the function of brown fat under the skin?
28. What are anosmia and hyposmia? Mention any common cause

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