



**Time: Three Hours**

**Max. Marks: 100 Marks**

**PHYSIOLOGY-PAPER II**

**(REVISED SCHEME)**

**QP Code: 1054**

Your answers should be specific to the questions asked

Draw neat labeled diagrams wherever necessary

**LONG ESSAYS**

**2 x 9 = 18 Marks**

1. Describe the role of different hormones in regulation of blood calcium level
2. Describe the origin, course and functions of cortico-spinal tract

**SHORT ESSAYS**

**10 x 5 = 50 Marks**

3. Define learning. Explain the role of conditioned reflex in learning
4. Define sleep. Describe the genesis of NREM sleep
5. Define Ovulation. Describe how it is regulated
6. Describe the functions of Testosterone
7. Describe the causes and features of Cushing's syndrome
8. Enumerate thyroid function tests
9. Describe the characteristic features of cerebellar lesion
10. Describe the genesis of endolymphatic potential. Which factors affect it
11. Explain the differences between Muscarinic and Nicotinic actions of Acetylcholine
12. Give Erlanger and Gasser's classification of Nerve fibre

**SHORT ANSWERS**

**16 x 2 = 32 Marks**

13. What is scotopic and photopic vision? What is Purkinje phenomenon?
14. Describe near response
15. Draw and label organ of Corti
16. Explain hormonal control of lactation
17. Describe the features of tetany
18. Define hormone. Explain characteristics of a hormone
19. Describe the mechanism of action of insulin
20. Explain "All or None law" in respect to cardiac and skeletal muscle
21. What are the functions of ATP in skeletal muscle contraction?
22. Explain the causes of heat rigor and rigor mortis
23. Explain the symptoms and treatment of heat stroke
24. Enumerate the functions of skin
25. Explain presynaptic inhibition
26. Draw a labeled diagram of Golgi tendon organ. What are its functions?
27. Explain the origin, course and functions of dorsal spinocerebellar tract
28. What is Phantom limb? Explain the law of projection.

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