

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. Describe the synthesis, transport, storage and functions of Posterior pituitary hormones
2. Draw a diagram of Neuro muscular junction and explain the mechanism of transmission at the junction

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

3. What is motor unit and how it is formed?
4. Explain Brown Sequard syndrome
5. Name the cutaneous receptors. How is receptor potential developed?
6. Draw a diagram of reflex arc and classify reflexes
7. Name the sensory tracts and explain the origin, course and termination of ventral spino cerebellar tract
8. What is cretinism? How can it be prevented?
9. What is Amenorrhea? When does physiological amenorrhea takes place in the woman?
10. Explain the formation of corpus luteum and its importance
11. Explain the permanent methods of family planning
12. How much is normal body temperature and explain the various heat gain mechanisms

SHORT ANSWERS**16 X 2 = 32 Marks**

13. List the clinical features of Pituitary dwarfism
14. How much is blood calcium level? Name the hormones regulating it
15. What is Pheochromocytoma? Which hormones increase in the blood circulation in this condition?
16. Name the functions of skin
17. What is the importance of counter current exchange of temperature in the blood vessels supplying the testes
18. What is ovulation and which hormone is essential for ovulation?
19. Where is the location of sertoli cells and what are the functions of sertoli cells?
20. What is spermiogenesis and spermiation?
21. What is the importance of blood testis barrier?
22. Name the tracts in posterior white column of spinal cord. What sensations are carried by these tracts?
23. What is synapse? Mention three types of synapses in Nervous system
24. What is I.P.S.P and E.P.S.P in the synapse?
25. What is Bell-Megendie's law? What is the exception to this law?
26. Write briefly on Weber Fechner's law
27. Write briefly on law of projection
28. Explain briefly what is Muller's law of specific nerve energies