

B. Sc. DEGREE END SEMESTER EXAMINATION - MARCH 2025**SEMESTER 4 : PSYCHOLOGY****COURSE : 19U4CPBHS4 : BIOPHYSIOLOGY OF BEHAVIOUR II- PAPER IV***(For Regular 2023 Admission and Improvement/Supplementary 2022/2021/2020 Admissions)*

Time : Three Hours

Max. Marks: 75

PART A**Answer All (1 mark each)**

1. ----- was discovered by German physician Paul Ehrlich in the late 19th Century.
2. Graves' Disease results from -----.
3. ----- is a systemic disease that affects the joints with remarkable inflammatory changes in the synovial membrane and articular structures.
4. ----- is a form of memory loss in which both learning and memory are affected.
5. Alzheimer's Disease is an example of which group of disorders associated with progressive cognitive decline?
6. In humans, name the cells responsible for moles, freckles and suntan.
7. The ----- buoys the brain so that it "floats" in the cranial cavity.
8. ----- is a congenital condition in which the ventricles enlarge in response to CSF pressure.
9. Vaccination is an example of ----- immunity.
10. ----- is the first substance identified as a neurotransmitter in the CNS.

(1 x 10 = 10)**PART B****Answer any 8 (2 marks each)**

11. What is psychoneuroendocrinology?
12. The hippocampus is reciprocally connected to the rest of the brain through two major pathways. Explain the pathways.
13. Differentiate between typical and atypical antipsychotics.
14. Write a note on Rheumatoid Arthritis.
15. Define hypersensitivity. Give an example.
16. What is lewy body dementia?
17. Define immunity.
18. Differentiate between positive and negative feedback systems for the regulation of hormones.
19. Which are the common positive symptoms of Parkinson's Disease?
20. Why is pituitary gland called the master gland?

(2 x 8 = 16)**PART C****Answer any 5 (5 marks each)**

21. What is bio-feedback and how is it related with stress management?
22. Write a note on the role of Hippocampus in memory.

23. Differentiate Active and Passive acquired immunity with the help of examples.
24. Write a short note on the Adrenocorticotrophic Hormone.
25. Explain the most common negative symptoms of Parkinson's Disease.
26. Write a short note on the regulation of secretion and action of TSH.
27. Write a note on the significance of the blood brain barrier.

(5 x 5 = 25)

PART D

Answer any 2 (12 marks each)

28. Write an essay on the Pituitary hormones and their functions.
29. Write an essay on immune response with reference to the processes and cells involved in the immune response.
30. Write an essay on Cell-mediated immunity.
31. Write an essay on the HPT axis and the HPA axis.

(12 x 2 = 24)