

Reg. No

Name

23U450

B. Sc. DEGREE END SEMESTER EXAMINATION -: MARCH 2023

SEMESTER 4 : PSYCHOLOGY

COURSE : 19U4CPBHS4: BIOPHYSIOLOGY OF BEHAVIOUR II - PAPER IV

(For Regular - 2021 Admission and Improvement / Supplementary - 2020 Admission)

Time : Three Hours

Max. Marks: 75

PART A

Answer All (1 mark each)

1. Vaccination is an example of ----- immunity.
2. If the pancreas secretes too little insulin, it causes -----.
3. Name the antibody that is also known as transplacental antibody.
4. Brain research on patients suffering from Alzheimer's Disease showed a reduction in ----- activity in the hippocampus and cortex.
5. Insulin is secreted by the ----- cells of Pancreatic Islets.
6. When a drug enhances the activity of a neurotransmitter, it is said to be an ----- for that neurotransmitter.
7. ----- is a congenital condition in which the ventricles enlarge in response to CSF pressure.
8. Alzheimer's Disease is an example of which group of disorders associated with progressive cognitive decline?
9. ----- is a form of memory loss in which both learning and memory are affected.
10. The major symptoms of ----- include tremor, rigidity, and disturbances of posture.

(1 x 10 = 10)

PART B

Answer any 8 (2 marks each)

11. What is lewy body dementia?
12. Explain any two major functions of the blood brain barrier.
13. What is innate immunity? State an example.
14. Distinguish between Neurogenic and Nephrogenic Diabetes Insipidus.
15. The hippocampus is reciprocally connected to the rest of the brain through two major pathways. Explain the pathways.
16. Write a note on Rheumatoid Arthritis.
17. What is meant by the endocrine system? Name the important endocrine glands.
18. Differentiate between typical and atypical antipsychotics.
19. Define immunity.
20. Differentiate between positive and negative feedback systems for the regulation of hormones.

(2 x 8 = 16)

PART C

Answer any 5 (5 marks each)

21. Write a short note on the Adrenocorticotrophic Hormone.
22. Write a short note on Cushing's Syndrome.
23. Explain primary and secondary immune response with the help of a diagram.
24. Write a note on the significance of the blood brain barrier.
25. Write a note on the mechanism of long term memory.
26. Write a note on anaphylaxis.
27. Explain the most common negative symptoms of Parkinson's Disease.

(5 x 5 = 25)

PART D

Answer any 2 (12 marks each)

28. Write an essay on innate immunity, explaining the first and second lines of defense.
29. Write an essay on the Pituitary hormones and their functions.
30. Explain in detail the two major types of acquired immunity based on the type of cells involved in the immune responses.
31. Write an essay on Pancreas, the hormones it secretes and the conditions associated with the gland.

(12 x 2 = 24)