22U446

B. Sc. DEGREE END SEMESTER EXAMINATION - MARCH 2022

SEMESTER 4 : PSYCHOLOGY

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

(For Regular - 2020 Admission)

Time : Three Hours

Max. Marks: 75

PART A

Answer All (1 mark each)

- 1. The immune response where antibodies are formed against self-antigen is called
- 2. Name the antibody that is also known as transplacental antibody.
- 3. The endocrine activity is regulated through releasing and inhibiting hormones by
- 4. Melatonin is secreted by the
- 5. ______ is the first substance identified as a neurotransmitter in the CNS.
- 6. _____ proposed a learning theory stating that when individual cells are activated at the same time, they grow connecting synapses or strengthen existing ones and thus become a functional unit.
- 7. Alzheimer's Disease is an example of which group of disorders associated with progressive cognitive decline?
- 8. _____ was discovered by German physician Paul Ehrlich in the late 19th Century.
- 9. The ______ buoys the brain so that it "floats" in the cranial cavity.
- A poverty or slowness of movement including a blankness of facial expression or a lack of blinking, swinging of the arms when walking, spontaneous speech, or normal movements of fidgeting is called _______.

(1 x 10 = 10)

PART B Answer any 8 (2 marks each)

- 11. What is psychoneuroimmunology?
- 12. Define hypersensitivity. Give an example.
- 13. Explain the placebo effect with the help of examples.
- 14. Differentiate between positive and negative feedback systems for the regulation of hormones.
- 15. Why is pituitary gland called the master gland?
- 16. What are the major functions of Prolactin.
- 17. List out the physiological changes that occur during learning.
- 18. What is lewy body dementia?
- 19. Differentiate between positive and negative symptoms of mental disorders.
- 20. Which are the two classes of anxiolytics? Explain.

(2 x 8 = 16)

PART C

Answer any 5 (5 marks each)

- 21. Write a note on the role of the complement system in immunity.
- 22. Write a note on anaphylaxis.
- 23. Write a short note on the regulation of secretion and action of TSH.

- 24. Explain in detail the role of FSH and LH in the reproductive system.
- 25. What is hippocampus? Explain the major theories about the role of hippocampus in memory.
- 26. Write a note on the composition and functions of CSF.
- 27. What is a neurotransmitter? Describe any two neurotransmitters with their functions.

(5 x 5 = 25)

PART D Answer any 2 (12 marks each)

- 28. Write an essay on immune response with reference to the processes and cells involved in the immune response.
- 29. Write an essay on innate immunity, explaining the first and second lines of defense.
- 30. Write an essay on the HPT axis and the HPA axis.
- 31. Write an essay on Adrenal gland, the hormones it secretes and the conditions associated with the gland.

(12 x 2 = 24)