

TB214820W

Reg. No :

Name :

B.Sc. DEGREE (C.B.C.S.) EXAMINATION, MARCH 2023

(2021 Admissions Regular, 2020 Admissions Supplementary / Improvement, 2019 ,2018&2017 Admissions Supplementary)

SEMESTER IV - COMPLEMENTARY COURSE 1 (PSYCHOLOGY)

PY4CMT11 - BIOPHYSIOLOGY OF BEHAVIOUR

Time : 3 Hours

Maximum Marks : 80

Part A

I. Answer any Ten questions. Each question carries 2 marks

(10x2=20)

1. Define immunity and immunology?
2. Explain humoral immunity with an example?
3. Explain the effect of meditation in immunity in general?
4. Define BCR and Plasma cell and explain its role in human immune system?
5. Define Limbic Cortex and explain how it influences emotions of a person?
6. Explain how endocrine glands maintains calcium level in our blood?
7. What happens when new information contradicts with those already stored in memory?
8. Why some of our memories are incomplete?
9. Write a short note on substrates that are used for energy production in cerebral tissues?
10. Can alcohol cross the blood brain barrier? Explain with reasons?
11. What can and Cannot pass through the blood-brain barrier?
12. List down and explain how opioid peptides can function both as hormones and as neuromodulators?

Part B

II. Answer any Six questions. Each question carries 5 marks

(6x5=30)

13. Explain humoral and cell mediated immunity, state with suitable examples?
14. Describe Innate Immunity and explain three types of innate immunity?
15. Define exocrine and endocrine glands with examples? Explain the functions of endocrine glands and list down any 8 endocrine glands and its hormones?
16. Discuss Hypophyseal Portal System and its importance ?
17. Discuss the mechanism of forgetting? Explain Trace Decay Theory ?
18. Explain Memory Retrieval process and discuss the four basic ways in retrieving memory from human brain?
19. Write a short note on Amnesia and Alzheimer's and explain how it affects the learning and Memory Retrieval Process?
20. Explain how brain cells restricts the passage of toxins or pathogens that could cause brain infections, while at the same time allowing vital nutrients to reach the brain?
21. Write a short note on Anxiety disorders symptoms and explain Anti-Anxiety Medications?

Part C

III. Answer any Two questions. Each question carries 15 marks

(2x15=30)

22. Explain Immune System in human body ? List down and explain the parts of Immune System and mention different ways that can be adopted to boost our immune system?

23. Discuss in detail: HPT Axis and HPA Axis with diagrams?
24. Describe the learning process takes place in infants? Explain the concept: synaptic pruning? Brief how this concept influence our learning process?
25. Explain blood brain barrier and discuss its importance ?