

BACHELOR'S DEGREE (C.B.C.S) EXAMINATION, MARCH 2025
2017, 2018, 2019, 2020, 2021, 2022 ADMISSIONS SUPPLEMENTARY
PSYCHOLOGY SEMESTER IV - COMPLEMENTARY COURSE 1 (PHYSIOLOGY)
PY4CMT11 - Biophysiology of Behaviour

Time : 30 Hours

Maximum Marks : 80

Part A

I. Answer any Ten questions. Each question carries 2 marks**(10x2=20)**

1. Briefly explain autoimmune diseases?
2. Distinguish between active and passive immunity?
3. Write a short note on adaptive immunity with an example?
4. State placebo effect with an example?
5. Difference between endocrine and exocrine gland with examples?
6. Define Limbic Cortex and explain how it influences emotions of a person?
7. Write a short note on learning and memory process in human brain?
8. Discuss the role of limbic system in learning and memory retrieval process?
9. Define Blood brain barrier?
10. Explain how serotonin and depression are related?
11. Explain how endothelial cells in the brain differs from endothelial cells in the rest of the body?
12. Write a short note on regions (areas) where opioids acts in the brain and nervous system ?

Part B

II. Answer any Six questions. Each question carries 5 marks**(6x5=30)**

13. "Life is fight against foreign substances". What system in our human body helps in fight against foreign substances and how?
14. Explain suppressed immune system? Explain causes, signs and symptoms of Immunosuppression?
15. Discuss thyroid and parathyroid gland? list down the hormones produced by these two glands and explain its role?
16. Discuss how hypothalamus influences emotionality?
17. Explain the modal model of memory.
18. Discuss the mechanism of long term memory?
19. Write a short note on the following : a)neuroplasticity b)Dementia c)Episodic Memory and Semantic Memory
20. Write a short note on excitatory neurotransmitters?
21. Explain the role of opioid peptides and receptors in brain?

Part C

III. Answer any Two questions. Each question carries 15 marks**(2x15=30)**

22. What does immune system disorder mean? Explain various disorders of immune system?
23. Discuss in detail: HPT Axis and HPA Axis with diagrams?
24. Describe memory retrieval in human brain ? Enumerate and explain the factors that trigger memory retrieval in human brain?
25. Explain Mental illness and its symptoms? Discuss some of the most common mental health issues and mental illnesses and explain how each of it can be cured?