| Reg. N | o : |
|--------|-----|
| Name | |

BACHELOR'S DEGREE (C.B.C.S) EXAMINATION, MARCH 2024 2022 ADMISSIONS REGULAR

SEMESTER IV - Psychology COMPLEMENTARY COURSE 1 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. Define pathogen and explain how does it function?
- 2. Define immunity and immunology?
- 3. Write a short note on types of lymphocytes?
- 4. Explain humoral immunity with an example?
- 5. What are the hormones produced by hypothalamus?
- 6. Write a short note on the functions and hormones produced by the butterfly-shaped organ located at the base of our neck?
- 7. Explain how physical activity and food consumption influences memory retrieval process?
- 8. What happens when new information contradicts with those already stored in memory?
- 9. Write the functions of any two neurotransmitters in the brain?
- 10. Explain SSRIs and SNRIs and how these two anti-anxiety medications helps in treatment for anxiety disorders?
- 11. Write a short note on substrates that are used for energy production in cerebral tissues?
- 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. Explain humoral and cell mediated immunity, state with suitable examples?
- 14. "Life is fight against foreign substances". What system in our human body helps in fight against foreign substances and how?
- 15. Discuss thyroid and parathyroid gland? list down the hormones produced by these two glands and explain its role?
- 16. Write a short note on limbic lobe and its functions? Explain how Mammillary bodies and Amygdala influences human behavior?
- 17. What are the physiological changes during learning?
- 18. Explain Memory Retrieval process and discuss the four basic ways in retrieving memory from human brain?
- 19. Write a short note on the following: a)Sensory Memory b)Short-term memory c)Long-term memory
- 20. Write a short note on excitatory neurotransmitters?
- 21. Discuss neurotransmitters and explain its transmission and functions?

Part C

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

(2x15=30)

- 22. Write a short note on Cell Mediated Immunity and explain how does Cell-Mediated Immunity works?
- 23. Discuss the hormonal influence on learning, memory and behavior?

- 24. Describe memory retrieval in human brain? Enumerate and explain the factors that trigger memory retrieval in human brain?
- 25. Explain opioid peptides and receptors and explain the mechanism of action?

