

SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN
(AUTONOMOUS)

(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)

Chromepet, Chennai - 600 044.

B.Sc.Psychology - END SEMESTER EXAMINATIONS - APRIL 2025

SEMESTER - II

21UPCCT2004 - Biological Psychology - II

Total Duration : 2 Hrs.30 Mins.

Total Marks : 60

Section B

Answer any **SIX** questions ($6 \times 5 = 30$ Marks)

1. Enlist and describe the different stages of sleep.
2. If a patient has low blood volume due to an injury, how would hypovolemic thirst mechanisms be activated?
3. Describe the role of the amygdala in processing fear and anxiety.
4. Discuss the characteristics and symptoms of Alzheimer's disease?
5. Enumerate the major stages of vertebrate brain development.
6. How would damage to the hypothalamus affect a person's hunger and eating behaviors?
7. Differentiate between the James-Lange and Cannon-Bard theories of emotion.
8. Analyze the role of the hippocampus in memory formation and storage.

Section C

Answer any **THREE** questions ($3 \times 10 = 30$ Marks)

9. Compare and contrast REM sleep and non-REM sleep, highlighting their key differences in brain activity, physiological responses, and functions.
10. Examine how different types of brain injuries affect neural plasticity.
11. Compare the roles of the ventromedial hypothalamus and the arcuate nucleus in hunger regulation.
12. Describe the role of ANS in emotions.
13. Describe the symptoms and causes of Korsakoff's syndrome.
