

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 - 2024

SEMESTER - I

21UPCCT1002 - Biological Psychology I

Total Duration : 2 Hrs. 30 Mins.

Total Marks : 60

Section B

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

1. Describe the techniques used for recording brain activity in Biological Psychology.
2. Discuss the structure and function of the blood-brain barrier.
3. Define neurotransmitters and provide examples of different types of neurotransmitters and explain their functions in regulating neuronal activity.
4. Explain the role of the sympathetic nervous system in the "fight or flight" response.
5. Explain the effects of brain damage on behavior and cognitive function.
6. Discuss the structure, types and function of neuron.
7. Explain how hormones exert their effects on target cells and tissues through various cellular mechanisms.
8. Describe the structure and function of the Autonomic Nervous System (ANS).

Section C

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

9. Explain the approaches that relate brain and behavior in biological psychology. Discuss the different levels of analysis used in studying the relationship between biology and behavior.
10. Provide an overview of the main divisions of the brain with a diagram and discuss the anatomical features and functions associated with each division.
11. How is the production of cerebrospinal fluid (CSF) regulated within the central nervous system and explain the role of cerebrospinal fluid (CSF) in maintaining brain function and homeostasis.

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12. Provide an overview of the endocrine glands and their specific hormones. Describe the functions of each gland and the hormones they produce.
13. Explain the concept of membrane potential. Describe the mechanisms underlying the generation and propagation of action potentials.
