

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 - NOV'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. Define Biological Psychology. Discuss the various approaches that relate the brain and behavior.
2. Describe the basic features of the nervous system. How do the meninges and the production of cerebrospinal fluid protect the brain?
3. Explain the process of synaptic transmission between neurons.
What role do neurotransmitters play in this communication process?
4. Outline the main divisions of the nervous system. Describe the chief structures and functions of the central and peripheral nervous Systems.
5. Explain the role of the pituitary and thyroid glands in human behavior.
How do hormonal imbalances in these glands affect mood and behavior?
6. Discuss the different methods used to study the biological basis of behavior.
How does recording brain activity help in understanding behavior?
7. Describe the structure and functions of neurons. What are the key differences between neurons and glial cells?
8. Analyze the relationship between hormonal actions and cellular mechanisms.
How do hormones regulate growth and activity in the body?

Section C

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

9. Discuss the effects of brain damage on behavior. How can correlating brain anatomy with behavior help in understanding cognitive functions?
10. Illustrate the anatomy of a neuron. Describe the role of dendrites, axons, and synapses in neural communication.
11. Evaluate the impact of neurotransmitter imbalances on human behavior.
How can therapeutic interventions target these imbalances?

Contd...

12. Discuss the development of the central nervous system. What are the major structures that form during development?
13. Create a diagrammatic representation of the endocrine system. Describe the functions of each gland and how their hormones influence human behavior.
