



PRESIDENCY UNIVERSITY

BENGALURU

Roll No.																			
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End - Term Examinations - December 2025

Date: 26 - 12- 2025

Time: 09:30am - 12:30pm

School: SOLAS-PG	Program: MSc Psychology		
Course Code: MSP4103	Course Name: Psychobiology		
Semester: I	Max Marks: 100	Weightage: 50%	

CO - Levels	C01	C02	C03	C04	C05
Marks	31	16	32	21	--

Instructions:

- (i) Read all questions carefully and answer accordingly.
- (ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL the Questions. Each question carries 3 marks.

10Q x 3 M=30M

1.	What is the synapse?	3 Marks	L1	C01
2.	Define the nerve impulse.	3 Marks	L1	C01
3.	Mention functions of the temporal lobe.	3 Marks	L1	C02
4.	What is cerebral lateralization?	3 Marks	L1	C02
5.	What are hormones? Provide examples.	3 Marks	L1	C03
6.	What are twin studies used for?	3 Marks	L1	C03
7.	What is ultradian rhythm?	3 Marks	L1	C03
8.	Mention neurotransmitters involved in sleep.	3 Marks	L1	C03
9.	What is event-related potentials (ERP)?	3 Marks	L1	C04
10.	Define neurofeedback.	3 Marks	L1	C04

Part B

Answer Any Four Questions. Each Question Carries 10 Marks.

4Q x 10M=40M

11.	Explain the structure and functions of the forebrain.	10 Marks	L2	CO1
Or				
12.	Describe neural transmission in the CNS and PNS.	10 Marks	L2	CO1
Or				
13.	Discuss cortical layers and their functional organisation.	10 Marks	L	CO2
Or				
14.	Explain the role of the frontal lobe in cognition, emotion, and behaviour.	10 Marks	L2	CO2
Or				
15.	Explain nature vs nurture with reference to genetic and environmental influences.	10 Marks	L2	CO3
Or				
16.	Describe the anatomy and physiology of the visual and auditory systems.	10 Marks	L2	CO3
Or				
17.	Explain stages of NREM sleep and the mechanisms behind REM sleep.	10 Marks	L2	CO3
Or				
18.	Discuss melatonin, the pineal gland, and their role in circadian timing.	10 Marks	L2	CO3

Part C

Answer Any Two Questions. Each Question Carries 15 Marks.

2Q x 15M=30M

19.	Evaluate neurotransmitter systems involved in learning, memory, and mood.	15 Marks	L3	CO1
Or				
20.	Critically discuss cerebral asymmetry and dominant hemisphere functions.	15 Marks	L3	CO1
Or				
21.	Explain hormonal regulation of stress and reproductive behaviour.	15 Marks	L2	CO4
Or				
22.	Compare TMS, intracranial stimulation, PET, and fMRI.	15 Marks	L2	CO4