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# PRESIDENCY UNIVERSITY

## BENGALURU

### Mid - Term Examinations – October 2025

**Date:** 29-10-2025

**Time:** 11.00am to 12.30pm

<b>School:</b> SOLAS-PG	<b>Program:</b> 1 MSc Psy	
<b>Course Code:</b> MSP4103	<b>Course Name:</b> Psychobiology	
<b>Semester:</b> I	<b>Max Marks:</b> 50	<b>Weightage:</b> 25%

<b>CO - Levels</b>	<b>CO1</b>	<b>CO2</b>	<b>CO3</b>	<b>CO4</b>	<b>CO5</b>
<b>Marks</b>	<b>26</b>	<b>24</b>			

**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 2marks.**

**5Q x 2M=10M**

<b>1</b>	What is the function of a neuron?	<b>2 Marks</b>	<b>L1</b>	<b>CO1</b>
<b>2</b>	Name two types of neurotransmitters and their roles.	<b>2 Marks</b>	<b>L1</b>	<b>CO1</b>
<b>3</b>	Describe the structure of the spinal cord.	<b>2 Marks</b>	<b>L1</b>	<b>CO2</b>
<b>4</b>	Define neuroplasticity in one sentence.	<b>2 Marks</b>	<b>L1</b>	<b>CO2</b>
<b>5</b>	State the difference between PNS and CNS.	<b>2 Marks</b>	<b>L1</b>	<b>CO1</b>

#### Part B

**Answer the Questions.**

**Total Marks 40M**

<b>6.</b>	Describe the anatomical and functional divisions of the human brain.	<b>10 Marks</b>	<b>L2</b>	<b>CO1</b>
<b>Or</b>				
<b>7.</b>	Explain the hierarchical model of cortical function with examples.	<b>10 Marks</b>	<b>L2</b>	<b>CO1</b>

<b>8.</b>	Discuss the structure and function of each lobe of the cerebral cortex.	<b>10 Marks</b>	<b>L3</b>	<b>CO1</b>
<b>Or</b>				
<b>9.</b>	Explain lateralization (cerebral asymmetry) and its importance with respect to language, memory, or emotion.	<b>10 Marks</b>	<b>L3</b>	<b>CO1</b>

<b>10.</b>	Analyze the role of specific brain centers in learning and memory, citing relevant research.	<b>10 Marks</b>	<b>L2</b>	<b>CO2</b>
<b>Or</b>				
<b>11.</b>	Write an essay on the frontal and temporal lobes, highlighting their roles in behavior and cognition.	<b>10 Marks</b>	<b>L2</b>	<b>CO2</b>

<b>12.</b>	Discuss the relationship between brain structure and higher cognitive functions, giving contemporary perspectives.	<b>10 Marks</b>	<b>L3</b>	<b>CO2</b>
<b>Or</b>				
<b>13.</b>	Critically evaluate models of cortical organization and their implications for understanding mental disorders.	<b>10 Marks</b>	<b>L3</b>	<b>CO2</b>