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PRESIDENCY UNIVERSITY

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Bengaluru

Mid Term Examinations - October 2026

Date: 06/10/2026 **Time:** 02:00 PM - 03:30 PM

Course Code: BSY1102 **Course Name:** Biological Basis of Behaviour

Semester: First Semester **Max. Marks:** 50 **Weightage:** 50%

CO - Levels	CO1	CO2	CO3	CO4	CO5
Marks	10	20	20	20	20

PART A: Answer Following Questions. 10 M

Q.N.	Questions	M	CO	BT
1	Define Biopsychology in brief.	2	CO1	BT1
2	Name the three protective meningeal membranes surrounding the brain.	2	CO1	BT1
3	State the core function of the cerebellum in motor control.	2	CO1	BT1
4	What are Broca’s aphasia and Wernicke’s aphasia?	2	CO1	BT1
5	Name the "3Rs" principles followed in ethical animal research.	2	CO1	BT1

PART B : Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
6	Explain the structural divisions and primary physiological functions of the Hindbrain (Rhombencephalon).	10	CO2	BT2
7	Explain the core ethical principles (including informed consent and animal research guidelines) required when conducting biological research on human and non-human subjects.	10	CO2	BT2

PART C: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
8	*A person encounters a sudden dangerous threat (e.g., being chased by an aggressive dog) and later returns to safety.* Apply the principles of the Autonomic Nervous System to explain the step-by-step physiological changes during both the emergency and recovery phases.	10	CO3	BT3
9	*A clinician evaluates a patient who speaks fluently with normal rhythm, but the speech makes no sense and the patient cannot comprehend spoken instructions.* Apply your knowledge of functional localization to identify the affected area, name the disorder, and explain the deficit.	10	CO3	BT3

PART D: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
10	Analyze the concepts of Functional Localization, Distributed Processing, and Cerebral Lateralization in regulating complex human behavior.	10	CO5	BT4
11	Analyze the role of the Reticular Activating System (RAS) and the Brainstem in regulating sleep, wakefulness, consciousness, and vital life-support functions.	10	CO5	BT4

PTO (Please Turn Over)

PART E: Answer Any 1 Following Questions. 10 M				
Q.N.	**Questions**	**M**	**CO**	**BT**
12	Demonstrate how the hypothalamic-pituitary axis links the endocrine system with the central nervous system to influence long-term bodily responses and emotional behaviour.	10	CO4	BT2
13	Demonstrate how the primary sensory and motor cortices contribute to sensory processing and motor control based on their structural organization and functional specialization.	10	CO4	BT2