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End Semester Examination, December 2024
MA Applied Psychology – 1st Semester
Biological Basis of Behaviour (HUAP507)

Time: 2.5 hrs.

Max Marks: **50**

Note: ***All Questions are compulsory. Marks are indicated against each question.***

PART-A

Q.1

- (a) Explain the role of genetics in behavior and provide an example of a genetic study in neuroscience. [CO-1] [L-] **2**
- (b) Describe the process and importance of synaptic transmission in neural communication. [CO-1] [L-] **2**
- (c) What are the ethical considerations in using animals for neurological research? Discuss with examples. [CO-1] [L-2] **2**
- (d) Compare and contrast the resting membrane potential and action potential. [CO-1] [L-2] **2**
- (e) Define neuroplasticity and explain its role in learning and memory. [CO-1] [L-2] **2**
- (f) Outline the evolutionary significance of the human sensory systems. [CO-1] [L-2] **2**
- (g) Discuss the concept of lateralization with respect to language functions in the brain. [CO-1] [L-2] **2**

2x5

PART-B

- Q.2 Discuss the impact of neurotransmitters on human behavior, with a focus on their role in mental health disorders. [CO-2] [L-3] **10**

OR

Describe the synaptic mechanisms that might be altered in schizophrenia. [CO-2] [L-3] **10**

- Q.3 Explain how neuroplasticity contributes to recovery from stroke. Include an analysis of neuronal adaptation. [CO-3] [L-3] **10**

OR

Detail the processes involved in the development of the nervous system and how errors in these processes can lead to neurological diseases. [CO-3] [L-3] **10**

- Q.4 Analyze the factors influencing hunger and eating behaviors, incorporating both physiological and psychological perspectives. [CO-4] [L-4] **10**

OR

Evaluate the effectiveness of different treatments for bulimia nervosa from a biopsychological viewpoint. [CO- 4] [L-4] **10**

- Q.5 Discuss the effects of sleep deprivation on cognitive functions and daily performance. [CO-5] [L-4] **10**

OR

Examine how circadian rhythms are related to sleep disorders and propose methods for management. [CO- 5]
[L-4] **10**