



HUL370 - Selected Topics in Psychology

Mid-Term Examination Question Paper

Total Marks: 25 Marks; Time - 2 hours (6:00 PM - 8:00 PM)

Date - 12.09.2023

Instructions: Please read the questions and answer all the questions. Kindly avoid repetition of content across the answers.

Q1. Explain (a) the All-or-None law in reference to how a neuron communicates information, and elaborate on the statement, "The All-or-None law puts constraints on how an axon can send a message in response to the stimulus" [2.5 Marks]. (b) Mirror neurons and how they are thought to be related to social behaviour? [2.5 Marks].

Q2. Explain the relationship between mental activity and brain activity, describing how specific classifications (i.e. four lobes and Central vs. Peripheral Nervous System) help us understand behaviour, use a suitable example wherever applicable. [5 Marks]

Q3. How do the following illusions help us understand how our brain processes information: (a) Ventriloquism (a person with a 'talking' puppet) [2.5 Marks] (b) Rubber-Hand Illusion [2.5 Marks].

Q4. Define Reflexes and Central Pattern Generator and how they help us understand human movement. [2.5 Marks] Explain why it is important to understand/ why is it useful in terms of real-world application. [2.5 Marks].

Q5. Describe any classic experiment that (offering empirical support) (a) helps us understand the role of the Cerebellum in movements, specifically those movements that involve accurate aiming and timing. [2.5 Marks] (b) helps us conclude that a conscious decision to move does not cause the movement? [2.5 Marks].



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End-Term Exam Question Paper

Total Marks: 40, Time: 2 hours

Instructions: Please read the questions and answer all the questions. Kindly avoid repetition of content across the answers.

1. Explain: a) homeostasis and allostasis [3 marks] b) ectothermic and endothermic body temperature regulation [4 marks] and c) factors that regulate feeding [3 marks] [Total = 10 marks]
2. Explain:
 - a. Two types of conditioning [2 marks], two studies on localization of an engram [2 marks]. Explain flashbulb memories and working memory [1 mark], and,
 - b. Explain the functions of hippocampus (three hypotheses) [5 marks] [Total= 10 marks]
3. Explain the functions of emotions [2 marks]. Explain any two theories of emotion [4 marks]. Pick any societal problem and discuss how emotions play a role in it (e.g., crime, violence, corruption) [4 marks]. [Total = 10 marks]
4. Explain with example - “The body generates its own cycles of activity and inactivity”. [2 Marks] Explain biological clock and circadian rhythm [2 marks], and what are the consequences of disturbances in these rhythms. [2 Marks] [Total = 6 marks]
5. Answer any one question that is NOT asked in the exam (minor, end term, or reading assignments), but you prepared/have an answer for it, please frame the question, list which chapter and subsection does it belong to, and answer the question that you phrased [4 marks].