

Memory Formation and the Brain — Practice Worksheet

This worksheet covers the roles of the hippocampus, cerebellum and amygdala in memory, and the conditions that cause memory loss.

Part A — Brain structures and memory

Q1. State the role each structure plays in memory:

(a) Hippocampus: _____

(b) Cerebellum: _____

(c) Amygdala: _____

(3 marks)

Q2. State three roles of the amygdala. *(3 marks)*

One: _____

Two: _____

Three: _____

Q3. Explain the amygdala's potential role in the process of classical conditioning. *(5 marks)*

Part B — Case study

Q4. Outline what the case study of Henry Molaison demonstrated about the role of the hippocampus in memory. *(4 marks)*

Part C — Causes of memory loss

Q5. Chronic Traumatic Encephalopathy (CTE) is a condition associated with memory loss. Name and outline two other conditions associated with memory loss, identifying two main features of each. *(8 marks)*

Link each structure to its memory type — hippocampus (explicit formation), cerebellum (implicit/procedural), amygdala (emotional) — and each memory-loss condition to its cause: CTE (trauma), Alzheimer's (degeneration), WKS (drug-induced).