

Solutions

2.1 Answer: B. It is a positive response on a noise-only trial. The other options do not satisfy the stated defining conditions.

2.2 Answer: A. Axons conduct action potentials toward terminals. Compare the exact process, design or evidence, rather than an associated keyword.

2.3 Use the worked case evidence to support a bounded claim and explain why a causal, universal or stronger claim needs additional evidence. The claim must fit the specific design and observed process.

3.1 Reduced sleep could affect memory processing, or stress/effort could affect both recall and activity. Compare ethically approved sleep conditions with standardized tasks and measured confounders; randomize condition order where suitable. Even then, a regional association does not establish that the region alone stores memories. Award B1 each (authored) for the interpretation, its reasoning, a relevant limitation/alternative and an appropriate check, up to four points. Accept a different justified answer satisfying these demands.