

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Think Fast! Level Up Your Logic Skills for University Success

Can you spot a shaky premise before it collapses? Deconstruct complex syllogisms and expose hidden informal fallacies in real-world scenarios.

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**1. In a philosophical debate regarding aesthetics, an artist argues: 'You cannot critique the composition of this mural because you have never painted a public installation yourself.' Which informal fallacy is being utilized?**

- A. Red Herring
- B. Ad Hominem (Circumstantial/Tu Quoque)
- C. Appeal to Authority
- D. Hasty Generalization

**2. True or False: In formal logic, an argument is considered 'sound' if and only if it is structurally valid and all of its premises are empirically true.**

- A. True
- B. False

**3. Apply the rule of Hypothetical Syllogism. Premise 1: If the central bank raises interest rates, then borrowing will decrease. Premise 2: If borrowing decreases, then consumer spending will slow down. Conclusion: \_\_\_\_\_.**

- A. The central bank will not raise interest rates.
- B. Consumer spending will slow down if rates stay the same.
- C. If the central bank raises interest rates, then consumer spending will slow down.
- D. Borrowing will decrease regardless of the bank's actions.

**4. Consider the following: 'Every piece of software I have downloaded from this developer has been bug-free. Therefore, the next update they release will likely be bug-free.' This is an example of:**

- A. Deductive Proof
- B. Abductive Reasoning
- C. Inductive Generalization
- D. Affirming the Consequent

**5. In the context of the 'Burden of Proof,' the claimant (the person making the assertion) is responsible for providing evidence, rather than the skeptic being responsible for disproving it.**

- A. True
- B. False

**6. Identify the logical operator missing here: In formal notation, the statement 'Neither the witness nor the defendant was present' is represented as the \_\_\_\_\_ of two negated propositions.**

- A. Disjunction

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- B. Conjunction
- C. Conditional
- D. Biconditional

**7. An advocate for urban farming states: 'If we don't convert every vacant lot into a garden immediately, our city will face a total food systemic collapse within two years.' This reasoning primarily exemplifies a:**

- A. Slippery Slope
- B. False Dilemma
- C. Post Hoc Ergo Propter Hoc
- D. Equivocation

**8. In symbolic logic, the invalid argument 'If it is a diamond, it is hard; this substance is hard; therefore, it is a diamond' is a formal fallacy known as \_\_\_\_\_.**

- A. Denying the Antecedent
- B. Affirming the Consequent
- C. Begging the Question
- D. The Fallacy of the Undistributed Middle

**9. True or False: A 'Reductio ad Absurdum' is a valid method of argument that proves a claim by showing its denial leads to a logical contradiction.**

- A. True
- B. False

**10. Which of the following best describes the 'Principle of Charity' in critical thinking?**

- A. Donating to educational causes for logic research.
- B. Interpreting an opponent's argument in its strongest possible form before critiquing it.
- C. Allowing an opponent to use fallacies without calling them out.
- D. Assuming that everything written in a peer-reviewed journal is true.