Teacher Answer Key

Case Study

1. The six-fingered hand with merging fingers is a textbook example of Tell #1 — AI generators consistently fail at accurate hand geometry. The garbled background text (HEALT RSERCH INTTUTE) is a perfect example of Tell #3 — AI systems replicate the visual pattern of text without generating coherent language. Both are systematic, predictable AI failures, not photographic anomalies.

2. Pairing a fake image with a fabricated scientific quote amplifies credibility because the visual element lends the quote an appearance of documented evidence. This combination shows that disinformation campaigns use AI not just for images in isolation, but to fabricate the visual context that makes false claims appear verified and newsworthy.

Multiple Choice

1. A

2. D

3. C

Matching

1-E, 2-C, 3-A, 4-B, 5-D

Fill-in-the-Blank

1) patterns, 2) garbled, 3) ages

Short Answer (Sample Responses)

Q1: AI errors are systematic because they reflect the underlying way these systems learn — by identifying statistical patterns across training data rather than understanding physical reality. Because the failures are predictable (hands, text, accessories), people can learn a reliable checklist of specific things to examine, which is far more useful than trying to detect random anomalies.

Q2: Answers will vary. Example: Hands — reveals AI's inability to build a geometric model of complex anatomical structures. Background text — reveals that AI learns visual texture patterns without processing linguistic meaning, so it can replicate the appearance of text without generating coherent words.

Q3: The 'off' feeling reflects human visual processing that has been calibrated over a lifetime to recognize natural faces, expressions, and lighting — it can detect subtle inconsistencies before the conscious mind can label them. But instinct alone

isn't sufficient because it can be fooled as images improve, it can't be explained or shared with others, and motivated reasoning can override it when we want to believe something.