

Test Questions

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OpenAI. (2025). ChatGPT. [Large language model]. <https://chat.openai.com/chat>

Prompt: *As a teacher, create a combination of 30 multiple-choice and True or False test questions for first-year college students based on the contents of the attached file: Chapter Six: Artificial Reasoning Vs. Human Reasoning*

1. Which statement best contrasts the ORIGIN of Human Intelligence (H.I.) and Artificial Intelligence (A.I.)?
 - A. H.I. is computational; A.I. is biological and experiential.
 - B. H.I. is biological and experiential; A.I. is computational and engineered.
 - C. Both H.I. and A.I. share the same biological origin.
 - D. H.I. is purely statistical; A.I. is intuitive and emotional.

Answer: B

2. Which description best captures the LEARNING MECHANISM of A.I.?
 - A. Intuitive, emotional, and experiential learning
 - B. Trial-and-error with no data
 - C. Statistical, data-driven, algorithmic learning
 - D. Innate moral reasoning guided by empathy

Answer: C

3. In terms of FLEXIBILITY, how do H.I. and A.I. generally differ?
 - A. H.I. is highly adaptive across contexts; A.I. is task-specific unless trained broadly.
 - B. H.I. is task-specific; A.I. is universally adaptive without training.
 - C. Both are universally adaptive across all contexts by default.
 - D. Neither can adapt to new contexts without re-engineering.

Answer: A

4. Which option best summarizes the difference in CREATIVITY?
 - A. H.I. creativity is frequently emergent and spontaneous; A.I. often imitates patterns from prior data.
 - B. Both H.I. and A.I. generate creativity only through random noise.
 - C. A.I. uniquely produces abductive leaps; H.I. only imitates.
 - D. H.I. is limited to pattern imitation; A.I. is inherently original.

Answer: A

5. Regarding BIAS and EMOTION, which statement is most accurate?
- A. A.I. has innate emotions that guide unbiased outputs.
 - B. H.I. has no emotional influence on reasoning.
 - C. A.I. is free from any bias, even in its training data.
 - D. A.I. reflects biases present in its inputs, whereas H.I. naturally involves bias and emotion.

Answer: D

6. Which statement best describes AWARENESS in H.I. vs. A.I.?
- A. H.I. is conscious and insightful; A.I. lacks self-awareness and is goal-driven in output.
 - B. Both H.I. and A.I. are fully self-aware.
 - C. A.I. is conscious and insightful; H.I. is not.
 - D. Neither H.I. nor A.I. can act in a goal-directed manner.

Answer: A

7. Which option is a clear ADVANTAGE of A.I.?
- A. Rapid processing of massive datasets (speed and scale)
 - B. Innate empathy in sensitive contexts
 - C. Unconstrained moral judgment
 - D. Guaranteed interpretability in all models

Answer: A

8. Which feature of A.I. supports long-term, reliable analysis?
- A. Emotional stamina
 - B. Consistency—no fatigue across long durations
 - C. Ad-hoc intuition without data
 - D. Spontaneous ethical insight

Answer: B

9. Which statement best captures A.I. 'objectivity' as discussed in the chapter?
- A. A.I. outputs are always objective regardless of training data.
 - B. A.I. should ideally be impartial, but biased inputs can distort outcomes.
 - C. A.I. is more biased than humans by design.
 - D. A.I. cannot be trained on data from humans.

Answer: B

10. Which is a DISADVANTAGE of A.I. in analysis?
- A. Difficulty with nuance, humor, ethics, and cultural subtleties
 - B. Too much empathy for sensitive contexts
 - C. Intrinsic moral reasoning independent of input
 - D. Unlimited creativity beyond any human capability

Answer: A

11. Why is A.I. often described as a 'black box' in some applications?

- A. Because A.I. models are always open-source
- B. Because the influence of programmers' choices and complex models can limit transparency
- C. Because A.I. never uses statistical methods
- D. Because outputs are determined entirely by human emotion

Answer: B

12. Which is a clear ADVANTAGE of HUMAN analysis?

- A. Uniform performance regardless of stress or fatigue
- B. Innate capacity to interpret subtle context, tone, and cultural realities
- C. Guaranteed lack of bias in all scenarios
- D. Perfect scalability to any dataset size

Answer: B

13. Which HUMAN capability is emphasized as essential for ethical assessment?

- A. Moral and philosophical judgment grounded in values
- B. Purely statistical inference without context
- C. Automated rule execution
- D. Emotion-free decision-making

Answer: A

14. Which statement highlights HUMAN innovation relative to A.I.?

- A. Humans mainly imitate patterns seen before.
- B. Humans possess an unlimited capacity for innovation that enables unconventional solutions.
- C. A.I. alone generates original ideas without prior data.
- D. Humans cannot think creatively under constraints.

Answer: B

15. Which is a DISADVANTAGE of HUMAN analysis noted in the chapter?

- A. Complete immunity to stress and bias
- B. Consistency identical to machines over months or years
- C. Susceptibility to bias, stress, and limited cognitive scope
- D. Inability to reflect critically on errors

Answer: C

16. In a case from Moorfields Eye Hospital (UK), A.I. achieved approximately what diagnostic accuracy versus human-only intervention?

- A. 65% for A.I.; 94% for human-only

- B. 94% for A.I.; 65% for human-only
- C. 50% for A.I.; 50% for human-only
- D. 99% for both A.I. and human-only

Answer: B

17. At George Eliot Hospital (UK), incorporating A.I. in CT scan analysis led to which outcome?
- A. A 27% decrease in early-stage cancer detection
 - B. No measurable change in detection rates
 - C. A 27% increase in early-stage cancer detection
 - D. Complete replacement of radiologists by A.I.

Answer: C

18. Which CURRICULAR shift is emphasized for post-secondary education?
- A. Silo A.I. literacy only within computer science courses
 - B. Teach Prompt Engineering and embed critical thinking across subjects
 - C. Avoid discussing ethics to keep courses technically focused
 - D. Replace human-centered skills with automation skills

Answer: B

19. Which HUMAN-CENTERED skill set should be emphasized alongside A.I. fluency?
- A. Creativity, empathy, and moral reasoning
 - B. Only speed and memorization
 - C. Exclusive focus on coding syntax
 - D. Mechanical task repetition

Answer: A

20. What is the primary RISK of cognitive offloading to A.I. noted in the chapter?
- A. It permanently improves long-term memory
 - B. It reduces engagement and memory retention when over-used
 - C. It eliminates all forms of bias
 - D. It guarantees deeper learning

Answer: B

True & False

21. A.I. cannot reason morally or ethically without prior human input in case-specific scenarios. (Answer: True)
22. Human reasoning enables abductive leaps—creative inferences from limited data. (Answer: True)
23. A.I. possesses an innate capacity for empathy suitable for sensitive contexts. (Answer: False)
24. Human analysis is typically faster than A.I. when processing massive datasets. (Answer: False)

- 25. A.I. results are automatically objective regardless of biases in training data. (Answer: False)
- 26. A.I. literacy should be siloed only in technology courses at the post-secondary level. (Answer: False)
- 27. Creativity, empathy, and moral reasoning remain irreplaceable human skills. (Answer: True)
- 28. Heavy reliance on A.I. tools can reduce student engagement and memory retention. (Answer: True)
- 29. In healthcare examples, humans still interpret A.I. outputs and communicate with patients. (Answer: True)
- 30. The goal articulated in the chapter is the supremacy of A.I. over human reasoning. (Answer: False)