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Continuing Education Course #542
Ethics for AI in Engineering

1. Which is NOT an ethical concern for AI?
 - a. Bias
 - b. Processor Size
 - c. Privacy
 - d. Accountability
2. Which does NOT normally set professional behavior standards?
 - a. LLM
 - b. State Regulations
 - c. Professional Organizations
 - d. Corporations
3. How many fundamental canons are in the Code of Ethics for Engineers?
 - a. 4
 - b. 5
 - c. 6
 - d. 7
4. AI detects a dangerous condition and helps prevent an explosion. This helps achieve compliance with which canon?
 - a. Avoid deceptive acts.
 - b. Act for each employer as faithful agents.
 - c. Hold paramount the safety, health, and welfare of the public.
5. AI copies proprietary information and doesn't give credit. This risks deviation from which canon?
 - a. Perform services only in areas of their competence.
 - b. Act for each employer or client as faithful agents or trustees.
 - c. Hold paramount the safety, health, and welfare of the public.
6. NSPE Position Statement No. 03-1774 promotes continuous education for which topic?
 - a. Software development
 - b. Virtual Assistants
 - c. AI technology and ethics
 - d. Smart infrastructure
7. Which algorithm method has $\text{Inputs} + \text{Rules} = \text{Output}$?
 - a. Traditional
 - b. AI
 - c. Smart
8. Which is NOT a category of AI?

- a. Ultra AI
- b. Deep Learning
- c. Gen AI
- d. Large Language Model

9. What is a digital twin?

- a. Identical designs used in different applications
- b. Two linked programs
- c. Model of a physical system with real conditions

10. Which is NOT a common application for smart infrastructure?

- a. HVAC
- b. Furniture
- c. Surveillance
- d. Water meters

11. Can other engineers do design work under the direction of the EOR?

- a. Yes
- b. No

12. Which aspect of responsible charge best describes “giving guidance to a designer”?

- a. Direct control
- b. Personal supervision

13. What is XAI?

- a. Adult AI
- b. Transparent AI
- c. Private AI

14. Which is NOT a potential source of bias for an AI program?

- a. Designed for limited applications
- b. Excess assumptions
- c. Minimum RAM requirements
- d. Trained on limited data

15. Which is NOT a column in a risk register?

- a. AI Type
- b. Priority
- c. Status
- d. Probability

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