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Continuing Education Course #642
Rise of the Machines:
The Emergence of Artificial Intelligence

1. What does "GPT" stand for in ChatGPT?
 - a. General Purpose Technology
 - b. Generative Pre-trained Transformer
 - c. Graph Processing Transformer
 - d. General Processing Task
2. Which company developed ChatGPT?
 - a. Google
 - b. Microsoft
 - c. OpenAI
 - d. IBM
3. Which of the following best describes a key characteristic of AI language models like ChatGPT?
 - a. they use pattern recognition to understand and generate text
 - b. they are rule-based systems
 - c. they can think and understand emotions
 - d. they can access real-time data from the internet
4. Who is considered one of the pioneers of artificial intelligence and proposed the Turing Test?
 - a. John McCarthy
 - b. Marvin Minsky
 - c. Geoffrey Hinton
 - d. Alan Turing
5. In what decade did the field of AI research begin to gain significant attention?
 - a. 1920s
 - b. 1940s
 - c. 1950s
 - d. 1980s
6. What is the significance of deep learning in AI?
 - a. it allows AI to store more data
 - b. it enables AI to learn from large datasets using neural networks
 - c. it makes AI less powerful and more specialized
 - d. it restricts AI to work only on text data
7. Which of the following is a capability of ChatGPT?
 - a. generating creative writing content and summarizing large documents
 - b. engaging in real-time conversations

- c. accessing current news and events
 - d. all of the above
8. What is a common limitation of ChatGPT and similar language models?
- a. they might generate biased or harmful content
 - b. they always provide accurate information
 - c. they can only understand one language
 - d. they can interpret emotions accurately
9. If AI goals are not aligned with human values, the singularity could have profound effects on society including
- a. economic disruption
 - b. changes in employment
 - c. ethical considerations and potential existential risks
 - d. all of the above
10. What does "AI alignment" refer to?
- a. ensuring AI models are as fast as possible
 - b. developing AI for commercial use
 - c. aligning AI with hardware capabilities
 - d. making AI systems behave according to human values and goals
11. The concept of a universal machine that could simulate any algorithmic process laying the foundation of modern computer science and computational theory is known as the
- a. enigma
 - b. abacus
 - c. TRS-80
 - d. Turing Machine
12. What was a major breakthrough for AI accompanied by exponential increases in computing power?
- a. vacuum tubes
 - b. mechanical relays
 - c. television
 - d. machine learning with neural networks
13. The concept that computing power will roughly double every year and has held true for several decades is known as
- a. Turing's Law
 - b. Moore's Law
 - c. Ohm's Law
 - d. Kirchoff's Law
14. The concept that has significantly influenced discussions about AI ethics and responsible development is known as
- a. Moore's Law
 - b. Fermi's Paradox
 - c. Asimov's Three Laws of Robotics
 - d. Judgement Day
15. Moore's Law proves that computer capability and processing power has increased and will continue to increase at what rate?
- a. linearly
 - b. exponentially

- c. slowly
- d. constant

16. What year did Gordon Moore introduce the idea of Moore's Law?

- a. 1945
- b. 1955
- c. 1965
- d. 1975

17. Following the AI Winters from the 1970s to the 1990s, a resurgence invigorated the field of AI. The focus shifted from rule-based AI to what?

- a. machine learning
- b. expert systems
- c. mainframe computers
- d. knowledge-based

18. The resurgence in AI allowing for the concentration on neural networks was made possible by what?

- a. new programming languages
- b. new compilers
- c. exponential increases in computing power
- d. expert systems

19. These constructs have the ability to generate human-like text, answer questions, write code, and engage in conversation.

- a. Turing Machine
- b. expert systems
- c. GPUs
- d. large language models

20. Soon after the introduction of generative AI, concerns began to emerge about ethics, transparency, and accountability due to its

- a. incorrect or biased content
- b. contribution to misinformation
- c. job displacement
- d. all of the above

21. When was the first generation ChatGPT released?

- a. 1995
- b. 2018
- c. 2022
- d. 1998

22. ChatGPT is based on what type of construct?

- a. lookup table
- b. binary search tree
- c. neural network
- d. large array

23. The term "transformer" in ChatGPT represents

- a. a method to trick the user
- b. a circuit that steps voltage down

- c. a circuit that steps current up
- d. a type of neural network specifically designed for understanding and generating sequences of text

24. A technological singularity

- a. is uncontrollable
- b. is irreversible
- c. could result in unforeseen changes to human civilization
- d. all of the above

25. With respect to artificial intelligence, a technological singularity is thought to have been realized when what is created?

- a. a machine that can pass the Turing Test
- b. a machine that can answer questions
- c. super intelligent AI which would be exponentially more intelligent than a human being
- d. a multiprocessor machine

26. What are some key aspects associated with the advent of the technological singularity?

- a. exponential growth and self improving AI
- b. periods of predictability
- c. a given timeframe
- d. steady growth

27. What are more key aspects associated with the technological singularity?

- a. little economic impact
- b. no changes to large scale employment
- c. unpredictable outcomes and impacts on society and potential existential risks
- d. slow growth

28. A possible explanation to Fermi's Paradox that could be related to the emergence of AI is what?

- a. advanced civilizations would be shy
- b. advanced civilizations self-destruct before becoming interstellar
- c. advanced civilizations emit all sorts of detectable energy
- d. we have unquestionable proof that advanced civilizations exist

29. The thought experiment on AI ethics and existential risk that given a seemingly harmless goal (like optimize production) could destroy humanity, the Earth, and more is known as

- a. The Paperclip Apocalypse
- b. Fermi's Paradox
- c. Moore's Law
- d. Turing Test

30. The Paperclip Apocalypse exemplifies the dangers of

- a. technology
- b. science
- c. poorly aligned AI objectives and value alignment
- d. job displacement

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