

Foundations of Artificial Intelligence and Machine Learning

Computer Science History · Practice Test · 18 Questions

1. Who is often referred to as the father of theoretical computer science and artificial intelligence?

- A) Alan Turing
- B) Ada Lovelace
- C) John von Neumann
- D) Charles Babbage

2. In which year was the term 'Artificial Intelligence' officially coined at the Dartmouth Conference?

- A) 1945
- B) 1956
- C) 1968
- D) 1972

3. Which famous test was proposed by Alan Turing in 1950 to determine if a machine can exhibit intelligent behavior?

- A) The Logic Test
- B) The Turing Test
- C) The Neural Test
- D) The Binary Test

4. Who wrote the first computer program intended to be executed by a machine?

- A) Grace Hopper
- B) Ada Lovelace
- C) Alan Turing
- D) Margaret Hamilton

5. What was the name of the first chess-playing computer to defeat a reigning world chess champion in a match?

- A) AlphaGo
- B) Deep Blue
- C) Watson
- D) ELIZA

6. Which program, created by Joseph Weizenbaum in the 1960s, simulated a psychotherapist?

- A) ELIZA
- B) Siri
- C) Alexa
- D) DeepMind

7. In 1997, which company developed the system that beat Garry Kasparov at chess?

- A) Microsoft
- B) Google
- C) IBM
- D) Intel

8. What is the name of the Google-developed AI that defeated the world champion of the board game Go in 2016?

- A) AlphaGo
- B) DeepThought
- C) Stockfish
- D) AlphaZero

9. Which scientist is credited with inventing the Perceptron, one of the earliest artificial neural networks?

- A) Frank Rosenblatt
- B) Marvin Minsky
- C) John McCarthy
- D) Herbert Simon

10. What was the primary goal of the 'Lighthill Report' published in 1973 in the United Kingdom?

- A) To advocate for AI funding
- B) To evaluate the state of AI research
- C) To ban all AI development
- D) To standardize AI coding languages

11. In the 1950s, Arthur Samuel coined the term 'Machine Learning' while working on which type of program?

- A) A speech recognition system
- B) A checkers-playing program
- C) A weather forecasting model
- D) A database management tool

12. Which AI system developed by IBM gained fame for winning the game show 'Jeopardy!' in 2011?

- A) Watson
- B) Deep Blue
- C) HAL 9000
- D) Siri

13. The first 'AI Winter' occurred primarily due to:

- A) A lack of computer power and failed expectations
- B) The invention of the internet
- C) A global shortage of electricity
- D) The rise of personal computers

14. Which logic-based programming language, developed in the 1970s, became very popular for AI research?

- A) Python
- B) Prolog
- C) Java
- D) Ruby

15. What major breakthrough in the 2010s significantly accelerated the field of Machine Learning?

- A) The invention of the transistor
- B) Deep Learning and neural networks
- C) The first web browser
- D) The invention of the mouse

16. Marvin Minsky co-founded which influential research institution?

- A) The MIT AI Lab
- B) The CERN laboratory
- C) The Bell Labs
- D) The Silicon Valley Institute

17. Which historical figure famously predicted that machines would eventually be able to do any intellectual work that a man can do?

- A) Alan Turing
- B) Charles Babbage
- C) Bill Gates
- D) Steve Jobs

18. What is the primary function of an 'expert system' in early AI history?

- A) To play video games
- B) To solve specialized problems using human knowledge
- C) To translate languages
- D) To browse the internet