

Pioneers of Artificial Intelligence

Artificial Intelligence · Answer Key · 15 Questions

1. What is often considered the first program capable of playing a game of checkers at a human-like level?

- A) Deep Blue
- B) ELIZA
- C) Samuel's Checkers Program**
- D) AlphaGo

2. Who is widely recognized as the 'father of Artificial Intelligence' for coining the term and organizing the Dartmouth Workshop?

- A) Alan Turing
- B) John McCarthy**
- C) Marvin Minsky
- D) Herbert Simon

3. What landmark 1950 paper by Alan Turing proposed a test to determine if a machine could exhibit intelligent behavior equivalent to, or indistinguishable from, that of a human?

- A) Computing Machinery and Intelligence**
- B) The General Problem Solver
- C) Minds, Brains, and Programs
- D) Logical Theorist

4. What was the name of the first AI program created in 1956 that could solve logic problems?

- A) Perceptron
- B) Logic Theorist**
- C) SHRDLU
- D) General Problem Solver

5. Which early AI program, developed in the mid-1960s, simulated a Rogerian psychotherapist through simple pattern matching and keyword substitution?

- A) MYCIN
- B) ELIZA**
- C) PARRY
- D) Dendral

6. What significant achievement did IBM's Deep Blue accomplish in 1997?

- A) Won the Nobel Prize in Physics
- B) Defeated the reigning world champion in chess**
- C) First AI to pass the Turing Test
- D) Discovered a new exoplanet

7. The Perceptron, developed by Frank Rosenblatt in 1957, is considered a precursor to what modern AI field?

- A) Natural Language Processing
- B) Expert Systems
- C) Deep Learning**
- D) Robotics

8. Which AI system, developed by Edward Feigenbaum and colleagues, was one of the first successful expert systems in the 1970s, designed to identify organic molecules?

- A) MYCIN
- B) DENDRAL**
- C) PROSPECTOR
- D) XCON

9. Who co-founded the Artificial Intelligence Laboratory at MIT and was a pioneer in robotics and early AI research?

- A) Geoffrey Hinton
- B) Andrew Ng
- C) Marvin Minsky**
- D) Yann LeCun

10. What groundbreaking event in 2011 involved an AI system competing against human contestants on the quiz show Jeopardy!?

- A) AlphaGo's victory
- B) Watson's victory**
- C) Deep Blue's victory
- D) Kismet's demonstration

11. The development of the first neural network is often attributed to the work of Warren McCulloch and Walter Pitts in what year?

- A) 1943**
- B) 1950
- C) 1956
- D) 1960

12. What was the primary goal of the 'Logical Theorist' program created by Allen Newell, Herbert Simon, and J.C. Shaw?

- A) To play chess
- B) To prove mathematical theorems**
- C) To understand human language
- D) To recognize images

13. Which AI achievement in 2016 saw an AI program defeat a world champion in the complex game of Go?

- A) Watson
- B) AlphaZero
- C) AlphaGo**
- D) Deep Blue

14. Who is credited with developing the concept of the 'Turing Test' as a benchmark for machine intelligence?

- A) John von Neumann
- B) Claude Shannon
- C) Alan Turing**
- D) Norbert Wiener

15. What type of AI system aims to mimic human cognitive functions and decision-making processes, often through rules and knowledge bases?

- A) Reinforcement Learning
- B) Machine Learning
- C) Expert Systems**
- D) Neural Networks