

Introduction to Artificial Intelligent



CERTIFICATE OF ACHIEVEMENT

This certificate is proudly presented to

Edward Thapelo Hlapane

> For: **Introduction to Artificial Intelligent**

> With a score of: **22/30 (73.33%)**

> Date: **August 7, 2025**



CAPACITI

Report Summary

Name	: Edward Thapelo Hlapane
Your Score	: 22 out of 30 (73.33%)
Correct Answers	: 22 Questions
Incorrect Answers	: 8 Questions
Unanswered	: 0 Questions
Required Passing Grade (%)	: 70%
Time Taken	: 14 mins 35 secs
Date	: Aug 07, 2025
Your Result	: Pass
Email	: Edward.Hlapane@Capaciti.org.za

Your Answers

Correct

Q1)

What is the abbreviation of AI?

- A. Artificial Intelligence (Your Answer)(Correct)
- B. Automated Interaction
- C. Advanced Integration
- D. Automated Inference

Incorrect

Q2) Which company developed the AI assistant 'Siri'?

- A. Google (Your Answer)(Incorrect)
- B. Amazon
- C. Apple (Correct)
- D. Microsoft

Correct

Q3) Which AI technique is used for image recognition?

- A. Natural Language Processing
- B. Computer Vision (Your Answer)(Correct)
- C. Speech Recognition
- D. Expert Systems

Correct

Q4) What is deep learning?

- A. A subset of machine learning using neural networks (Your Answer)(Correct)
- B. A type of AI that focuses on emotions
- C. A type of AI that mimics animal behavior

- D. A type of AI that uses quantum computing

Incorrect

Q5) Which AI application is used for virtual assistants?

- A. Computer Vision
- B. Natural Language Processing (Correct)
- C. Speech Synthesis
- D. Speech Recognition (Your Answer)(Incorrect)

Correct

Q6) What is the role of data in AI?

- A. Data is not important in AI
- B. Data is used to train AI models (Your Answer)(Correct)
- C. Data is only used in robotics
- D. Data is used for AI visualization

Incorrect

Q7) What is the purpose of AI chatbots?

- A. To replace human customer service representatives (Your Answer)(Incorrect)
- B. To provide automated responses to user queries (Correct)
- C. To spy on user conversations
- D. To generate random messages

Incorrect

Q8) Which programming language is commonly used in AI development?

- A. Java (Your Answer)(Incorrect)
- B. Python (Correct)
- C. C++
- D. Ruby

Correct

Q9) What is computer vision?

- A. A type of AI that understands human vision (Your Answer)(Correct)
- B. A type of AI that controls computers remotely
- C. A type of AI that predicts weather patterns
- D. A type of AI that mimics human memory

Incorrect

Q10) What is reinforcement learning?

- A. A type of AI that rewards good behavior (Your Answer)(Incorrect)
- B. A type of AI that learns from rewards and punishments (Correct)
- C. A type of AI that mimics animal instincts
- D. A type of AI that focuses on self-improvement

Correct

Q11) What is the main purpose of AI ethics?

- A. To restrict AI development
- B. To ensure AI systems are developed responsibly (Your Answer)(Correct)
- C. To eliminate AI bias
- D. To promote AI competition

Correct

Q12) Which of the following is NOT a subfield of AI?

- A. Machine Learning
- B. Robotics
- C. Blockchain (Your Answer)(Correct)
- D. Natural Language Processing

Incorrect

Q13) Which AI application is used for speech recognition?

- A. Computer Vision
- B. Natural Language Processing (Your Answer)(Incorrect)
- C. Speech Synthesis
- D. Speech Recognition (Correct)

Correct

Q14) Machine Learning is a subset of Artificial Intelligence.

- A. True (Your Answer)(Correct)
- B. False

Correct

Q15) AI can only be applied in the field of robotics.

- A. True
- B. False (Your Answer)(Correct)

Correct

Q16) What is the goal of AI?

- A. To replace human intelligence
- B. To mimic human intelligence
- C. To enhance human intelligence (Your Answer)(Correct)
- D. To eliminate human intelligence

Correct

Q17) Which AI technique is used for pattern recognition?

- A. Genetic Algorithms
- B. Neural Networks (Your Answer)(Correct)
- C. Fuzzy Logic
- D. Expert Systems

Correct

Q18) What is AI ethics?

- A. A branch of philosophy that studies AI behavior
- B. A field that focuses on the moral implications of AI technology (Your Answer)(Correct)
- C. A type of AI that makes ethical decisions
- D. A type of AI that mimics human ethics

Correct

Q19) Natural Language Processing (NLP) is a branch of AI that focuses on the interaction between computers and humans using natural language.

- A. True (Your Answer)(Correct)
- B. False

Correct

Q20) What is the Turing Test?

- A. A test to measure computer processing speed
- B. A test to evaluate a machine's ability to exhibit intelligent behavior (Your Answer)(Correct)
- C. A test to assess software compatibility
- D. A test to determine network security vulnerabilities

Incorrect

Q21) Which AI technique is used for decision-making processes?

- A. Reinforcement Learning (Correct)
- B. Supervised Learning (Your Answer)(Incorrect)
- C. Unsupervised Learning
- D. Deep Learning

Correct

Q22) Which AI technique is inspired by the way the human brain works?

- A. Genetic Algorithms
- B. Expert Systems
- C. Neural Networks (Your Answer)(Correct)

D. Fuzzy Logic

Correct

Q23) What is the role of AI in finance?

- A. AI is not used in finance
- B. AI is used for fraud detection and risk assessment (Your Answer)(Correct)
- C. AI is only used for basic calculations in finance
- D. AI is used for weather forecasting in finance

Correct

Q24) What is the significance of AI in healthcare?

- A. AI has no impact on healthcare
- B. AI is used for medical diagnosis and treatment recommendations (Your Answer)(Correct)
- C. AI is only used for administrative tasks in healthcare
- D. AI is used for entertainment purposes in healthcare

Correct

Q25) What is the role of algorithms in AI?

- A. Algorithms are not used in AI
- B. Algorithms are used to process data and make decisions (Your Answer)(Correct)
- C. Algorithms are only used in robotics
- D. Algorithms are used for AI visualization

Correct

Q26) Which AI application is used for autonomous driving?

- A. Robotics
- B. Natural Language Processing
- C. Computer Vision (Your Answer)(Correct)
- D. Speech Recognition

Correct

Q27) What is the difference between narrow AI and general AI?

- A. Narrow AI can perform specific tasks, while general AI can perform any task (Your Answer)(Correct)
- B. Narrow AI is more advanced than general AI
- C. General AI is limited to specific domains, while narrow AI is versatile
- D. There is no difference between narrow AI and general AI

Incorrect

Q28) Deep Learning is a type of Machine Learning technique.

- A. True (Correct)
- B. False (Your Answer)(Incorrect)

Correct

Q29) What is natural language processing (NLP)?

- A. A type of AI that processes images
- B. A type of AI that understands human language (Your Answer)(Correct)
- C. A type of AI that predicts stock market trends
- D. A type of AI that controls robots

Correct

Q30) What is machine learning?

- A. A type of AI that learns from data (Your Answer)(Correct)
- B. A type of AI that mimics human behavior
- C. A type of AI that focuses on logical reasoning
- D. A type of AI that uses neural networks