Name: _____ ID: _____

Score: _____ Points: 100 . Date: Wednesday, July 17, 2024.

Instructions:

- Read each question carefully and select the most appropriate answer.

- Choose the best option among the given choices.

- Mark your selected answer on the answer sheet provided.

- There is only one correct answer for each question.

Section 1: Listening Comprehension

1. How would you define Artificial Intelligence (AI) from the video?

a) Machines have the ability to simulate human intelligence and perform tasks that typically require human intelligence.

b) A subset of machine learning algorithms focusing on deep neural networks.

c) The process of training models to make predictions and decisions without being explicitly programmed.

d) The study and design of intelligent agents capable of perceiving their environment and taking actions to maximize their chances of success.

2. According to the video, what is Machine Learning?

a) A subset of AI that involves training models to make predictions and decisions without being explicitly programmed.

b) The study of algorithms and statistical models used by computer systems to perform specific tasks.

c) A technique in which a machine is presented with vast amounts of data and can learn and improve its performance over time.

d) Computer systems have the ability to imitate human-like intelligence and behavior.

3. Based on the video, what is Deep Learning?

a) A branch of AI that aims to create computer systems capable of understanding, learning, and/or solving complex problems.

b) A subset of machine learning that focuses on algorithms inspired by the structure and function of the human brain.

c) The process of training a neural network with many layers to learn patterns and make accurate predictions.

d) Machines have the ability to process and understand natural language as well as humans do.

4. Which statement accurately describes the relationship between AI, Machine Learning, and Deep Learning?

a) Machine learning is a subset of AI, and deep learning is a subset of machine learning.

b) Deep learning is a subset of AI, and machine learning is a subset of deep learning.

c) AI, Machine Learning, and Deep Learning are all synonymous terms.

d) AI, Machine Learning, and Deep Learning are distinct but interconnected fields within computer science.

5. How is deep learning different from traditional machine learning algorithms?

a) Deep learning algorithms require less data to make accurate predictions.

b) Deep learning algorithms can automatically learn and extract features from raw data, while traditional machine learning algorithms require manual feature engineering.

c) Deep learning algorithms are only applicable to image and speech recognition tasks.

d) Deep learning algorithms are not reliant on neural networks for training and prediction.

6. Which technology is being discussed in the audio clip?

    a) Artificial Intelligence (AI)

    b) Quantum Computing

    c) Robotic Process Automation (RPA)

    d) Virtual Reality (VR)

7. What is the main benefit mentioned in the audio clip?

    a) Increased computational power

    b) Enhanced user experience

    c) Improved data security

    d) Advanced machine learning algorithms

8. According to the speaker, what role does AI play in software development?

    a) Automating repetitive tasks

    b) Enhancing user interfaces

    c) Debugging code errors

    d) Analyzing big data sets

Section 2: Reading Comprehension

Read the following passage and answer the questions that follow.

Passage:

Panama's Tech University is renowned for its comprehensive curriculum catering to software developers and computer engineers. Professor Mgter. Morales teaches the English 1 course designed for these students. Jaime Morales is an expert in the field. The course focuses on various language skills required for effective communication in the tech industry. It covers parts of speech, types of sentences, and relevant topics like AI and machine learning.

9. Why is Panama's Tech University known?

    a) Its highly qualified professors

    b) Its comprehensive curriculum

    c) Its state-of-the-art facilities

    d) Its emphasis on research and innovation

10. Who teaches English 1 to Computers and Software Developers?

    a) Professor Mgter. Jaime Morales

    b) Professor Ana García

    c) Professor Luis Hernandez

    d) Professor Roberto Martinez

11. What other topics besides language skills are covered in the English 1 course?

    a) Cybersecurity and cryptography

    b) Networking and cloud computing

c) Parts of speech and types of sentences

d) Algorithms and programming languages

Section 3: Vocabulary and Spelling

Choose the option that correctly spells the given word or phrase.

12. A program that executes a specific task automatically:

a) Automotic

b) Automatik

c) Automatiqu

d) Automatic

13. The ability of a computer or machine to imitate intelligent human behavior:

a) Artificiel Intelligence

b) Artifitial Intelligence

c) Artificial Intelligance

d) Artificial Intelligence

Section 4: IPA Understanding

Choose the option corresponding to the correct IPA transcription of the given word.

14. /kɒmpjuːtər/

a) Compyuter

b) Compyooter

c) Computeer

d) Computer

15. /ˈændrɔɪd/

a) Androoid

b) Androuid

c) Android

d) Androud

Here are some additional questions with IPA transcriptions for basic vocabulary related to hardware and software:

16. How would you transcribe the word "computer" in IPA?

a) /kəmˈpjuː.tər/

b) /kəmˈpjuʈɚ/

c) /kəmˈpjudɚ/

d) /kɒmˈpjuː.tər/

17. How would you transcribe the word "keyboard" in IPA?

a) /ˈkiː.bɔːrd/

b) /ˈkɪ.bɔːrd/

c) /ˈkibɔrd/

d) /ˈkiː.bɔːd/

18. How would you transcribe the word "monitor" in IPA?

a) /ˈmɑn.ə.tɚ/

b) /ˈmɒn.ə.tə/

c) /ˈmɑːn.ɪ.tə/

d) /ˈmɒn.ɪ.tə/

19. How would you transcribe the word "software" in IPA?

a) /ˈsɒft.weər/

b) /ˈsɑft.weə/

c) /ˈsɒf.tweə/

d) /ˈsɔft.wɛə/

20. How would you transcribe the word "hardware" in IPA?

a) /ˈhɑrd.wɛər/

b) /ˈhɑr.dweə/

c) /ˈhɑrd.weə/

d) /ˈhɑr.dwɛr/

"Embrace the power of languages and technologies, which are key to unlocking a world of unimaginable opportunities. Adapt, learn, and master them, and success shall follow you wherever you go." - Author unknown

Good luck!