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QUESTION 1

How could machine learning make a robot autonomous?

- A. Use OCR, optical character recognition, to read documents
- B. Use NLP (Natural Language Processing) to listen
- C. Use actuators to modify its environment
- D. Learn from sensor data and plan to carry out a task.

Correct Answer: D

Machine learning can be used to make robots autonomous by allowing them to learn from sensor data and plan how to carry out a task. This involves using algorithms to analyze data from sensors and use this data to make decisions and take actions. By using machine learning, robots can learn from their environment and become more autonomous.

References:

[1] BCS Foundation Certificate In Artificial Intelligence Study Guide, "Robotics", p.98.

[2] APMG-International.com, "Foundations of Artificial Intelligence"

[3] EXIN.com, "Foundations of Artificial Intelligence"

QUESTION 2

Who was the pioneer of computer programming?

- A. Dame Wendy Hall.
- B. Karen Spark Jones.
- C. Ada Lovelace.
- D. Sophie Wilson

Correct Answer: C

<https://www.techopedia.com/2/31564/watercooler/ada-lovelace-enchantress-of-numbers>

Ada Lovelace was an English mathematician and writer who is widely credited as the pioneer of computer programming. In 1842, she wrote an article in which she outlined the fundamental principles of computing, making her the first person to recognize the potential of computers and to describe algorithms that could be used to program them. Her work laid the basis for modern computing and is recognized as one of the most significant contributions to the field of computing.

References:

<https://www.bcs.org/more/certifications/foundation-certificate-in-artificial-intelligence/>

<https://www.apmg-international.com/en-gb/courses/computing-and-programming/computing-and-programming-foundation-and-certification/>

QUESTION 3

With a large dataset, limited computational resources or frequent new data to learn from, we can adopt what type of machine learning?

- A. Batch learning.
- B. Big Data learning.
- C. Patchwork learning.
- D. Online learning.

Correct Answer: D

Online learning is a type of machine learning that can be used when a large dataset is limited in computational resources or if the data is frequently changing. It allows the system to learn from new data as it is being presented, rather than having to re-train the entire dataset each time new data is added. This makes it more efficient and effective than batch learning, as it only needs to process the new data and not the entire dataset. Online learning is often used in applications such as fraud detection, where new data is constantly being added and needs to be analyzed quickly. For more information, please refer to the BCS Foundation Certificate In Artificial Intelligence Study Guide (<https://www.bcs.org/upload/pdf/bcs-foundation-certificate-in-artificial-intelligence-study-guide.pdf>) or the EXIN Artificial Intelligence Foundation Certification (<https://www.exin.com/en/exams/artificial-intelligence-foundation>).

QUESTION 4

An AI agent relies on its perceptual input. This is called the agent's what?

- A. Position
- B. Environment
- C. World
- D. Percept

Correct Answer: D

Performance Measure of Agent It is the criteria, which determines how successful an agent is.

Behavior of Agent It is the action that agent performs after any given sequence of percepts.

Percept It is agent's perceptual inputs at a given instance. Percept Sequence It is the history of all that an agent has perceived till date. Agent Function It is a map from the precept sequence to an action.

Agent Terminology

https://www.tutorialspoint.com/artificial_intelligence/artificial_intelligence_agents_and_environments.htm

An AI agent relies on its perceptual input, which is referred to as the agent's percept. This is the data that the agent

collects through its sensors about its environment. The percept allows the agent to make decisions and take actions based on

its environment. The agent's percept is important for Artificial Intelligence systems to be able to operate effectively.

References:

[1] BCS Foundation Certificate In Artificial Intelligence Study Guide, "Reinforcement Learning", p.96-97.

[2] APMG-International.com, "Foundations of Artificial Intelligence"

[3] EXIN.com, "Foundations of Artificial Intelligence"

QUESTION 5

What term do computer scientists and economists use to describe how happy an agent is?

- A. Index.
- B. Warm.
- C. Return
- D. Utility.

Correct Answer: D

<https://griffinshare.fontbonne.edu/cgi/viewcontent.cgi?article=1008&context=ijds>

Computer scientists and economists use the term "utility" to describe how happy an agent is. Utility is a measure of satisfaction or preference, and it is used to evaluate an agent's satisfaction with a particular outcome. Utility can be used to

determine the optimal decision or action for an agent to take in order to maximize its satisfaction.

References:

[1] BCS Foundation Certificate In Artificial Intelligence Study Guide, "Decision Making and Planning", p.99-100.

[2] APMG-International.com, "Foundations of Artificial Intelligence"

[3] EXIN.com, "Foundations of Artificial Intelligence"

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