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QUESTION 1

The EU's Ethical Guidelines use what to demonstrate trustworthy AI?

- A. A quality assurance plan.
- B. UN's sustainability goals.
- C. Customer feedback.
- D. A human-centric value system.

Correct Answer: D

The European Union's Ethical Guidelines for Trustworthy AI use a human-centric value system to demonstrate that Artificial Intelligence (AI) is trustworthy. This value system is based on human rights, autonomy, safety, privacy, transparency,

accountability and fairness. The guidelines also state that AI should be designed, developed and used in a manner that respects these values.

References:

<https://ec.europa.eu/digital-single-market/en/news/ethical-guidelines-trustworthy-ai>

BCS Foundation Certificate In Artificial Intelligence Study Guide (2019), A.I and Ethics, Chapter 5.

QUESTION 2

Collaboration, learning and iterative are terms used to describe what?

- A. Waterfall projects.
- B. Rapid software development.
- C. Trustworthy AI.
- D. Agile projects

Correct Answer: D

Collaboration, learning, and iterative are terms used to describe agile projects. Agile projects are designed to be adaptive and flexible, allowing teams to incorporate feedback and learn from their mistakes. This process encourages

collaboration between team members, and emphasizes the importance of iterative development and continual improvement. Agile projects focus on delivering value quickly and efficiently, allowing teams to make changes and adapt to

changing customer needs.

References:

[1] <https://www.bcs.org/upload/pdf/foundation-certificate-ai-syllabus-v1.pdf>



[2] <https://www.apmg-international.com/en/qualifications-and-certifications/bc-foundation-certificate-in-artificial-intelligence/>

[3] <https://www.exin.com/en/certifications/bc-foundation-certificate-in-artificial-intelligence/>

[4] <https://www.scrumguides.org/scrum-guide.html>

QUESTION 3

Which factor of a Waterfall approach is most likely to result in the failed delivery of an AI project?

- A. Takes longer to deliver all functional requirements.
- B. Discourages collaboration and cross boundary communication.
- C. Takes longer to complete the design phase of the project.
- D. Discourages revisiting and revising any prior phase once it is complete.

Correct Answer: D

The Waterfall approach is a sequential design process in which each phase of development must be completed before the next phase can begin. This means that once a phase is complete, it is difficult to go back and make changes, as any

changes made to the project could potentially affect all the other phases. As a result, the Waterfall approach can make it difficult to adapt to changing customer requirements or adjust to new technology. This can ultimately lead to the failed delivery of an AI project.

References:

[1] BCS Foundation Certificate In Artificial Intelligence Study Guide, Page number 19

[2] APMG International, "What is a Waterfall Model?", <https://apmg-international.com/en/blog/what-is-a-waterfall-model/>

[3] EXIN, "What is the Waterfall Model?", <https://www.exin.com/blog/what-is-the-waterfall-model/>

QUESTION 4

Human-centric trustworthy AI must be...

- A. quality assurance certified.
- B. continually assessed and monitored.
- C. financially sustainable.
- D. tested by humans.

Correct Answer: B

Human-centric trustworthy AI must be continually assessed and monitored in order to ensure that it is behaving in a safe



and ethical manner. This includes conducting regular tests and audits to ensure that the AI is functioning as intended, and is not taking any actions or decisions that could potentially harm humans or their environment. References: BCS Foundation Certificate In Artificial Intelligence Study Guide, <https://bcs.org/ai/certificate/> and APMG International, <https://www.apmg-international.com/qualifications/artificial-intelligence-foundation-certificate>.

QUESTION 5

Reflex and Model-based Reflex are two types of what?

- A. Robot
- B. Artificial intelligent agents.
- C. Algorithms.
- D. Compilers.

Correct Answer: B

Reflex and Model-based Reflex are two types of Artificial Intelligent Agents. Artificial Intelligent Agents are computer systems designed to act and think in a manner similar to humans, incorporating elements of problem solving, decision-making, communication, and learning. Reflex agents are reactive agents which act based on the current environment and conditions, while Model-based Reflex agents use a model of the environment to make decisions.

References: BCS Foundation Certificate In Artificial Intelligence Study Guide, <https://bcs.org/ai/certificate/> and APMG International, <https://www.apmg-international.com/qualifications/artificial-intelligence-foundation-certificate>.

QUESTION 6

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 7

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 8

A vector in vector calculus is a quantity that has magnitude and direction.

What is a vector in computer programming?

- A. An array with one dimension.
- B. A two-dimensional array of scalars.
- C. An array of complex numbers
- D. A constant

Correct Answer: A

In computer programming, a vector is a data structure that contains a collection of elements that are all of the same type. Each element in the vector has an associated index, which can be used to access and modify the element at that index.

Vectors are commonly used to store collections of numerical values (e.g., integers or floating-point numbers) or strings, but they can also be used to store any type of data.

References:

[1] BCS Foundation Certificate In Artificial Intelligence Study Guide, Page number 36



[2] APMG International, "What is a Vector in Computer Programming?", <https://apmg-international.com/en/blog/what-is-a-vector-in-computer-programming/>

[3] EXIN, "What is a Vector in Computer Programming?", <https://www.exin.com/blog/what-is-a-vector-in-computer-programming/>

QUESTION 9

Splitting data into Training and Test data sets is part of what?

- A. Machine learning data preparation.
- B. Batch learning.
- C. Machine learning post processing.
- D. High performance computing strategy.

Correct Answer: A

Splitting data into training and test data sets is an important step in the machine learning data preparation process. This process involves splitting the data into subsets, usually in a 70:30 ratio, to create a training set and a test set. The training set is used to train the machine learning model, while the test set is used to evaluate the model's performance. This process allows for the model to be tested and evaluated on data that it has not seen before, in order to ensure that it is accurate and able to generalize to new data. References: BCS Foundation Certificate In Artificial Intelligence Study Guide, <https://bcs.org/certifications/foundation-certificates/artificial-intelligence/>

QUESTION 10

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"

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