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Question 1

Question Type: MultipleChoice

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

Options:

A- Index.

B- Warm.

C- Return

D- Utility.

Answer:

D

Explanation:

<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'

Question 2

Question Type: MultipleChoice

An agent based model is a simulation of autonomous agents (individual and collective). What can be used to learn from the data generated by the simulations?

Options:

A- Paraview.

B- Machine Learning.

C- Python.

D- A spreadsheet

Answer:

B

Explanation:

An agent based model is a simulation of autonomous agents (individual and collective). Machine learning can be used to learn from the data generated by the simulations. Machine learning algorithms can analyze the data generated by simulations and identify patterns, which can then be used to help the agent make decisions and take actions. References:

[1] BCS Foundation Certificate In Artificial Intelligence Study Guide, 'Simulation and Modelling', p.101-104. [2] APMG-International.com, 'Foundations of Artificial Intelligence' [3] EXIN.com, 'Foundations of Artificial Intelligence'

Question 3

Question Type: MultipleChoice

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

Options:

A- Position

B- Environment

C- World

D- Percept

Answer:

D

Explanation:

Agent Terminology

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.

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 4

Question Type: MultipleChoice

Who was the pioneer of computer programming?

Options:

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

D- Sophie Wilson

Answer:

C

Explanation:

<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 5

Question Type: MultipleChoice

What is one of the MAIN contributions of AI to the rapid development of The Fourth Industrial Revolution?

Options:

- A- Enhanced design.
- B- Automation
- C- Big Data
- D- AI personal assistants.

Answer:

B

Explanation:

<https://research.com/careers/what-is-the-fourth-industrial-revolution>

Artificial Intelligence (AI) is playing a major role in the rapid development of the Fourth Industrial Revolution. AI technologies are enabling the automation of many processes that were previously carried out by humans or machines, which has greatly increased the speed, efficiency, and accuracy of these processes. Automation is one of the main contributions of AI to the Fourth Industrial Revolution, as it has greatly increased the productivity of businesses and industries, while reducing the cost of production and improving the quality of products. References:<https://www.bcs.org/more/certifications/foundation-certificate-in-artificial-intelligence/><https://www.apmg-international.com/en-gb/courses/fourth-industrial-revolution/fourth-industrial-revolution-foundation-and-certification/>

Question 6

Question Type: MultipleChoice

The EU and United Nations have made designing for all individuals a core principle. What is this type of design called?

Options:

- A- Core design
- B- Universal design.
- C- Biophilic design.
- D- Utopic design.

Answer:

B

Explanation:

<https://universaldesign.ie/What-is-Universal-Design/>

Universal design is a type of design that takes into account the needs of all individuals, regardless of age, ability, or physical condition. It is a principle that is embraced by the European Union and the United Nations, and it is based on the idea that products, services, and environments should be designed to be usable by the widest range of people possible. Universal design emphasizes accessibility, usability, and inclusivity, and it is often used to create products and services that are easy to use for people of all ages and abilities.

References:<https://www.bcs.org/more/certifications/foundation-certificate-in-artificial-intelligence/><https://www.apmg-international.com/en-gb/courses/universal-design/universal-design-foundation-and-certification/>

Question 7

Question Type: MultipleChoice

Sustainability focuses on which three core areas?

Options:

- A- Scientific, Environmental and Economic.
- B- Social, Economic and Environmental.
- C- Social, Economic and Entrepreneurial.
- D- Social, Entrepreneurial and Environmental.

Answer:

B

Explanation:

The term sustainability is broadly used to indicate programs, initiatives and actions aimed at the preservation of a particular resource. However, it actually refers to four distinct areas: human, social, economic and environmental -- known as the four pillars of sustainability.

[https://www.futurelearn.com/info/courses/sustainable-](https://www.futurelearn.com/info/courses/sustainable-business/0/steps/78337#:~:text=However%2C%20it%20actually%20refers%20to,the%20four%20pillars%20of%20sustainability.&text=Human%20sustainability)

[business/0/steps/78337#:~:text=However%2C%20it%20actually%20refers%20to,the%20four%20pillars%20of%20sustainability.&text=Human%20sustainability](https://www.futurelearn.com/info/courses/sustainable-business/0/steps/78337#:~:text=However%2C%20it%20actually%20refers%20to,the%20four%20pillars%20of%20sustainability.&text=Human%20sustainability)

Sustainability focuses on these three core areas because they all have an impact on the environment and society. Social sustainability is concerned with the relationships between people and how to create a society that is equitable and fair for all members. Economic sustainability focuses on the creation of a viable economic system that provides for the needs of the present without compromising the ability of future generations to meet their own needs. Environmental sustainability focuses on protecting natural resources, ecosystems and habitats, and minimizing the impact of human activities on the environment.

References:<https://www.bcs.org/more/certifications/foundation-certificate-in-artificial-intelligence/><https://www.apmg-international.com/en-gb/courses/sustainability/sustainability-foundation-and-certification/>

Question 8

Question Type: MultipleChoice

Human-centric trustworthy AI must be...

Options:

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

Answer:

B

Explanation:

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 9

Question Type: MultipleChoice

From the ELL's ethics guidelines for AI, what does 'The Principle of Autonomy,' mean?

Options:

- A- Robots will have freewill.
- B- AI agents will behave as humans.
- C- AI systems will be human-centric
- D- AI systems will preserve human agency.

Answer:

D

Explanation:

The Principle of Autonomy from the ELL's ethics guidelines for AI states that AI systems should be designed in a way that preserves human agency and responsibility. This means that AI systems should be designed in a way that allows humans to remain in control of their decisions, and that the AI system should not be able to act without human input or permission. 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 10

Question Type: MultipleChoice

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

Options:

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

Answer:

B

Explanation:

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>.

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