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QUESTION 1

Narrow or weak Al can be useful to robots.

Which of the following is an example of narrow AI?

- A. Conscious simul-ation.
- B. Artificial General Al.
- C. Conscious integration.
- D. NLP Natural Language Processing.

Correct Answer: D

NLP - Natural Language Processing is an example of narrow AI. It is a type of AI system that is able to understand, interpret, and generate natural language. NLP has become increasingly popular over the past few years, as it has been used

to create applications such as chatbots, virtual assistants, and search engines. NLP systems are able to learn language and the context in which it is used, and they are able to understand the nuances of language and its different meanings.

References:

BCS Foundation Certificate In Artificial Intelligence Study Guide, https://bcs.org/certifications/foundation-certificates/artificial-intelligence/

QUESTION 2

An intelligent robot uses AI to do what?

- A. Sense, plan and act
- B. Plan, act and speak.
- C. Perceive, plan and act.
- D. Sense, plan and move.

Correct Answer: C

An intelligent robot uses Artificial Intelligence (AI) to perceive its environment, plan its actions and then act on them. This is sometimes referred to as the "sense, plan, act" cycle, and is at the heart of what makes a robot intelligent. By using

Al, robots can sense their environment, plan their actions accordingly and then act on them in order to complete their tasks.

For more information, please refer to the BCS Foundation Certificate in Artificial Intelligence Study Guide: https://www.bcs.org/category/18076/bcs-foundation-certificate-in-artificial-intelligence-study-guide.

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QUESTION 3

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

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

Correct Answer: B

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 4

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

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

Correct Answer: D

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 5

Who was the pioneer of computer programming?



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A. Dame Wendy Ha

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-programmingfoundation-and-certification/

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