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QUESTION 1

In the 1800's the development of statistics led to _____ theorem and is used in probabilistic inference. (Select the missing word.)

- A. Boltzmann's
- B. Kolmogorov's
- C. Bayes'
- D. The central limit

Correct Answer: C

The development of statistics in the 1800s led to the development of the Bayes' theorem, named after Reverend Thomas Bayes. This theorem is used in probabilistic inference, which is the process of using data to calculate the likelihood of a

hypothesis or outcome. The theorem is used for determining the probability of an event occurring given its prior probability, as well as its associated conditions. The Bayes' theorem is also used in a variety of fields, such as machine learning,

artificial intelligence, economics, and medical research. Sources:

BCS Foundation Certificate In Artificial Intelligence Study Guide: <https://www.bcs.org/category/18071>

APMG International: <https://www.apmg-international.com/en/qualifications/qualification-resources/bcs-foundation-certificate-in-artificial-intelligence/>

EXIN: <https://www.exin.com/en/certification/bcs-foundation-certificate-in-artificial-intelligence>

QUESTION 2

What does TRL stand for?

- A. Technical Robotic Level.
- B. Transform Reinforced Learning
- C. Technology Readiness Level.
- D. Transport Ready Level.

Correct Answer: C

Technology Readiness Level (TRL) Technology Readiness Levels (TRL) are a method of estimating the technology maturity of Critical Technology Elements (CTE) of a program during the acquisition process.

[https://acqnotes.com/acqnote/tasks/technology-readiness-level#:~:text=Technology%20Development,Technology%20Readiness%20Level%20\(TRL\),program%20during%20the%20acquisition%20process.](https://acqnotes.com/acqnote/tasks/technology-readiness-level#:~:text=Technology%20Development,Technology%20Readiness%20Level%20(TRL),program%20during%20the%20acquisition%20process.)

TRL stands for Technology Readiness Level and is a measure of how close a technology is to being ready for use in a



real-world environment. TRL is used to assess the progress of research and development of a technology, ranging from basic research (TRL 1) to fully operational (TRL 9). TRL is used to help determine the level of completion of a technology and its potential success in a real-world environment.

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.acq.osd.mil/rd/nii/trl.html>

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

In Machine learning what are a brain's axons called?

- A. Dendrites
- B. Edges



C. Tetrahedra.

D. Nodes

Correct Answer: D

In Machine Learning, the brain's axons are referred to as nodes. Nodes are the components of a neural network that are responsible for processing the input data and generating the output. A node is a mathematical function that takes input data, performs a computation on it, and produces an output. Each node is connected to other nodes in the network via edges, which represent the strength of the connection between the respective nodes. The strength of the connection between two nodes is determined by the weights assigned to each edge. The weights are adjusted during the training process to generate the desired results. 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 5

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>

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