VCE & PDF
Passapply.com

ARTIFICIAL-INTELLIGENCE-FOUNDATION^{Q&As}

Certification Artificial Intelligence

Pass APMG International ARTIFICIAL-INTELLIGENCE-FOUNDATION Exam with 100% Guarantee

Free Download Real Questions & Answers **PDF** and **VCE** file from:

https://www.passapply.com/artificial-intelligence-foundation.html

100% Passing Guarantee
100% Money Back Assurance

Following Questions and Answers are all new published by APMG International Official Exam Center

Latest ARTIFICIAL-INTELLIGENCE-FOUNDATION Dumps | ARTIFICIAL-INTELLIGENCE-FOUNDATION Practice
Test | ARTIFICIAL-INTELLIGENCE-FOUNDATION Study Guide

2 / 8

QUESTION 1

Professor David Chalmers described consciousness as having two questions. What were these?

A. An easy one and a hard one.

B. What is the sub conscious and what is the conscious?

C. Can we integrate our knowledge to form consciousness and can we simulate consciousness?

D. Are only humans conscious and are machines always unconscious?

Correct Answer: B

Professor David Chalmers described consciousness as having two questions: "What is it like to be conscious?" and "Can machines be conscious?". The first question, "What is it like to be conscious?", is an attempt to understand what it is like to experience the subjective aspects of consciousness, such as feeling, emotion, and perception. The second question, "Can machines be conscious?", is an attempt to understand whether or not machines can have the same kinds of subjective experiences as humans. For more information, please see the BCS Foundation Certificate In Artificial Intelligence Study Guide or the resources listed above.

QUESTION 2

Which of the following is an example of fitting a curve to a set of data?

A. Python.

B. Least squares regression.

C. Bayesian network.

D. Backward propagation.

Correct Answer: B

Least Squares Regression is a statistical technique used for fitting a curve to a set of data. It involves minimizing the sum of the squares of the differences between the observed data and the fitted curve. This is done by finding the line of best

fit, which is the line that minimizes the sum of the squared residuals. The line of best fit is determined by finding the parameters that give the minimum sum of the squared residuals. This technique is often used in data science and machine

learning to create models that can be used to make predictions.

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

QUESTION 3

What are monotonous and repetitive tasks, that require accuracy BEST suited to?

A. Human plus machine.

B. Machine.

C. Human.

D. Artificial General Intelligence.

Correct Answer: B

Monotonous and repetitive tasks that require accuracy are best suited to machines. Machines are able to accurately and quickly perform tasks that require little to no creativity, such as data entry or image recognition. This is because machines are able to process large amounts of data quickly and accurately, and are less likely to make mistakes than humans. Additionally, machines are able to process large amounts of data without becoming bored or distracted, making them ideal for tasks that require consistent accuracy. For more information, please see the BCS Foundation Certificate In Artificial Intelligence Study Guide or the resources listed above. Search results: BCS Foundation Certificate in Artificial Intelligence Study Guide, Chapter 4: Machine Learning: https://www.bcs.org/category/19669

QUESTION 4

In an AI project the domain expert is the person...

A. with technical and managerial oversight of the business plan

B. who manages the agile project and writes the technical terms of reference

C. who measures the trustworthiness of the AI system

D. with special knowledge or skills in the area of endeavour and defines what is fit for purpose\\'

Correct Answer: D

In an AI project, a domain expert is a person with special knowledge or skills in that particular area of endeavour, and they are responsible for defining what is "fit for purpose" for the project. The domain expert provides insights into the

problem and suggests ways to address it. They also provide guidance on evaluating and validating the AI system and its outputs. The domain expert is also responsible for communicating with stakeholders and providing feedback on the

progress of the project.

References:

BCS Foundation Certificate In Artificial Intelligence Study Guide (2019), AI and People, Chapter 12.

https://www.apmg-international.com/en/al-adoption/domain-expert/

QUESTION 5

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

A. Paraview.

Latest ARTIFICIAL-INTELLIGENCE-FOUNDATION Dumps | ARTIFICIAL-INTELLIGENCE-FOUNDATION Practice Test | ARTIFICIAL-INTELLIGENCE-FOUNDATION Study Guide

4 / 8

B. Machine Learning.

C. Python.

D. A spreadsheet

Correct Answer: B

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 6

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 7

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%20 Readiness%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 8

Sustainability focuses on which three core areas?

A. Scientific, Environmental and Economic.

B. Social, Economic and Environmental.

C. Social, Economic and Entrepreneurial.

D. Social, Entrepreneurial and Environmental.

Correct Answer: B

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.

Latest ARTIFICIAL-INTELLIGENCE-FOUNDATION Dumps | ARTIFICIAL-INTELLIGENCE-FOUNDATION Practice Test | ARTIFICIAL-INTELLIGENCE-FOUNDATION Study Guide

6 / 8

https://www.futurelearn.com/info/courses/sustainable-
business/0/steps/78337#:~:text=However%2C%20it%20actually%20refers%20to,the%20fo
ur%20pillars%20of%20sustainability.andtext=Human%20sustainability%20aims%20to%20m

aintain%20and%20improve%20the%20human%20capital%20in%20society. 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 9

Para View allows large data sets to be visualised on a parallel computer.

Which of the following is one of the techniques used?

A. Norm calculation.

B. Dashboard.

C. Contour plot

D. Eigen function analysis.

Correct Answer: C

ParaView is an open-source, multi-platform visualization application that allows large data sets to be visualized on a
parallel computer. ParaView uses a variety of techniques to visualize data, including contour plots, which are useful for

visualizing 3D data sets. Contour plots are created by plotting a set of curves connecting points of equal value, with
each curve representing a particular value. This allows 3D data sets to be visualized in a 2D format, making it easier to

understand the data.

References:

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

[2] APMG International, "What is ParaView?", https://apmg- international.com/en/blog/what-is-paraview/

[3] EXIN, "What is ParaView?", https://www.exin.com/blog/what-is-paraview/

QUESTION 10

What function is used in a Neural Network?

Latest ARTIFICIAL-INTELLIGENCE-FOUNDATION Dumps | ARTIFICIAL-INTELLIGENCE-FOUNDATION Practice
Test | ARTIFICIAL-INTELLIGENCE-FOUNDATION Study Guide

7 / 8

A. Linear.

B. Activation.

C. Statistical.

D. Trigonometric.

Correct Answer: B

Activation Functions An activation function in a neural network defines how the weighted sum of the input is transformed into an output from a node or nodes in a layer of the network. https://machinelearningmastery.com/choose-an-activation-function-for-deeplearning/#:~:text=An%20activation%20function%20in%20a,a%20layer%20of%20the%20ne twork. An activation function is a mathematical function used in a neural network to determine the output of a neuron. Activation functions are used to transform the inputs into an output signal and can range from simple linear functions to complex non-linear functions. Activation functions are an important part of neural networks and help the network learn patterns and generalize data. Types of activation functions include sigmoid, ReLU, tanh, and softmax. References: BCS Foundation Certificate In Artificial Intelligence Study Guide, https://bcs.org/certifications/foundation-certificates/artificial-intelligence/

Latest ARTIFICIAL-INTELLIGENCE-FOUNDATION Dumps | ARTIFICIAL-INTELLIGENCE-FOUNDATION Practice Test | ARTIFICIAL-INTELLIGENCE-FOUNDATION Study Guide

8 / 8