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### QUESTION 1

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/>

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### QUESTION 2

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/>

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### QUESTION 3

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

AI, 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 4

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>.

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### QUESTION 5

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/>

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