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QUESTION 1

Which of the following is an advantage of a machine based system?

- A. Able to judge ambiguous and unknown situations.
- B. Capable of sympathising with humans.
- C. Undertakes monotonous tasks reliably and accurately.
- D. Can explain the output of an AI system

Correct Answer: C

One of the main advantages of a machine-based system is its ability to reliably and accurately undertake monotonous and repetitive tasks. This is especially useful for tasks that require a high level of accuracy and precision, such as data

entry or analysis. Machine-based systems are also able to process large amounts of data quickly, meaning that they are able to complete tasks more quickly and efficiently than humans. Additionally, machine-based systems can be

programmed to take certain decisions and actions based on the input data, allowing them to automate certain processes without the need for human intervention.

References:

BCS Foundation Certificate In Artificial Intelligence Study Guide (2019), AI Systems, Chapter 8. <https://www.apmg-international.com/en/al-adoption/advantages-of-al/>

QUESTION 2

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

- A. Position
- B. Environment
- C. World
- D. Percept

Correct Answer: D

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.

Agent Terminology

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"
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QUESTION 3

Ensemble learning methods do what with the hypothesis space?

- A. Select a combination of hypothesis to combine their predictions
- B. Use stochastic gradient descent to optimise a network.
- C. Extract ergodic solutions.
- D. Test multiple hypotheses simultaneously.

Correct Answer: A

https://link.springer.com/referenceworkentry/10.1007/978-0-387-73003-5_293#:~:text=Definition,and%20combine%20them%20to%20use. It works by selecting different subsets of the data, or different combinations of the hypothesis, and

combining the results of each prediction in order to create a single, more accurate result. This is useful in situations where different hypothesis may be accurate in different parts of the data, or where a single hypothesis may not be accurate in

all cases. Ensemble learning is used in a variety of applications, from computer vision to natural language processing.

References:

- [1] BCS Foundation Certificate In Artificial Intelligence Study Guide, BCS
 - [2] Apmg-international.com, "What is Ensemble Learning?", APMG International, <https://apmg-international.com/en/about-apmg/blog/what-is-ensemble-learning/>
 - [3] Exin.com, "Ensemble Learning", EXIN, <https://www.exin.com/en-us/learn/ensemble-learning>
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QUESTION 4

The EU's Ethical Guidelines use what to demonstrate trustworthy AI?

- A. A quality assurance plan.

- B. UN's sustainability goals.
- C. Customer feedback.
- D. A human-centric value system.

Correct Answer: D

The European Union's Ethical Guidelines for Trustworthy AI use a human-centric value system to demonstrate that Artificial Intelligence (AI) is trustworthy. This value system is based on human rights, autonomy, safety, privacy, transparency,

accountability and fairness. The guidelines also state that AI should be designed, developed and used in a manner that respects these values.

References:

<https://ec.europa.eu/digital-single-market/en/news/ethical-guidelines-trustworthy-ai>

BCS Foundation Certificate In Artificial Intelligence Study Guide (2019), A.I and Ethics, Chapter 5.

QUESTION 5

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?

- A. Paraview.
- 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"

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