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### QUESTION 1

How could machine learning make a robot autonomous?

- A. Use OCR, optical character recognition, to read documents
- B. Use NLP (Natural Language Processing) to listen
- C. Use actuators to modify its environment
- D. Learn from sensor data and plan to carry out a task.

Correct Answer: D

Machine learning can be used to make robots autonomous by allowing them to learn from sensor data and plan how to carry out a task. This involves using algorithms to analyze data from sensors and use this data to make decisions and take actions. By using machine learning, robots can learn from their environment and become more autonomous.

References:

[1] BCS Foundation Certificate In Artificial Intelligence Study Guide, "Robotics", p.98.

[2] APMG-International.com, "Foundations of Artificial Intelligence"

[3] EXIN.com, "Foundations of Artificial Intelligence"

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### QUESTION 2

The Scrum Master is part of which team?

- A. Software development team.
- B. Data preparation team
- C. Agile project team.
- D. Management team

Correct Answer: C

<https://www.techtarget.com/whatis/definition/scrum-master#:~:text=A%20Scrum%20Master%20is%20a,in%20accordance%20with%20Agile%20principles.>

The Scrum Master is part of the agile project team, and is responsible for ensuring that the team is following the Scrum process. The Scrum Master is the facilitator of the team, ensuring that the team is working together and following the

Scrum principles. They are also responsible for protecting the team from any external influences and helping resolve any issues that may arise.

References:

[1] <https://www.bcs.org/upload/pdf/foundation-certificate-ai-syllabus-v1.pdf>

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[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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### QUESTION 3

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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### QUESTION 4

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](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 5

Human-centric trustworthy AI must be...

- A. quality assurance certified.
- B. continually assessed and monitored.
- C. financially sustainable.
- D. tested by humans.

Correct Answer: B

Human-centric trustworthy AI must be continually assessed and monitored in order to ensure that it is behaving in a safe and ethical manner. This includes conducting regular tests and audits to ensure that the AI is functioning as intended, and is not taking any actions or decisions that could potentially harm humans or their environment. 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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