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Question: 1

A human manipulates what using their intelligence?

A. Environment
B. Space
C. Objective
D. Mission

Answer: A

Explanation:
Humans use their intelligence to manipulate their environment in order to achieve their objectives and complete their mission. This can involve a wide range of activities, such as building tools, constructing shelters, and creating strategies to solve problems. Reference: BCS Foundation Certificate In Artificial Intelligence Study Guide, https://bcs.org/ai/certificate/ and APMG International, https://www.apmginternational.
com/qualifications/artificial-intelligence-foundation-certificate.

Question: 2

Reflex and Model-based Reflex are two types of what?

A. Robot
B. Artificial intelligent agents.
C. Algorithms.
D. Compilers.

Answer: B

Explanation:
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. Reference: BCS Foundation Certificate In Artificial Intelligence Study Guide, https://bcs.org/ai/certificate/ and APMG International, https://www.apmginternational.
com/qualifications/artificial-intelligence-foundation-certificate.

Question: 3

From the Ell's ethics guidelines for Al, what does 'The Principle of Autonomy,' mean?

A. Robots will have freewill.
B. Al agents will behave as humans.
C. Al systems will be human-centric
D. Al systems will preserve human agency.

Answer: D

Explanation:
The Principle of Autonomy from the ELL's ethics guidelines for Al states that Al systems should be designed in a way that preserves human agency and responsibility. This means that Al systems should be designed in a way that allows humans to remain in control of their decisions, and that the Al system should not be able to act without human input or permission. Reference: BCS Foundation Certificate In Artificial Intelligence Study Guide, https://bcs.org/ai/certificate/ and APMG International, https://www.apmg-international.com/qualifications/artificial-intelligence-foundationcertificate.

Question: 4

Human-centric trustworthy Al must be...

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

Answer: B

Explanation:
Human-centric trustworthy Al 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 Al is functioning as intended, and is not taking any actions or decisions that could potentially harm humans or their environment. Reference: BCS Foundation Certificate In Artificial Intelligence Study Guide, https://bcs.org/ai/certificate/ and APMG International, https://www.apmginternational.com/qualifications/artificial-intelligence-foundation-certificate.

Question: 5

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.

Answer: B

Explanation:
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.
https://www.futurelearn.com/info/courses/sustainablebusiness/
0/steps/78337#:~:text=However%2C%20it%20actually%20refers%20to,the%20four%20pillars%
20of%20sustainability.&text=Human%20sustainability%20aims%20to%20maintain%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.
Reference: https://www.bcs.org/more/certifications/foundation-certificate-in-artificialintelligence/
https://www.apmg-international.com/en-gb/courses/sustainability/sustainabilityfoundation-
and-certification/