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QUESTION 1

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

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

Correct Answer: D

The Principle of Autonomy from the ELL's ethics guidelines for AI states that AI systems should be designed in a way that preserves human agency and responsibility. This means that AI systems should be designed in a way that allows humans to remain in control of their decisions, and that the AI system should not be able to act without human input or permission. 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>.

QUESTION 2

In Machine learning what are a brain's axons called?

- A. Dendrites
- B. Edges
- C. Tetrahedra.
- D. Nodes

Correct Answer: D

In Machine Learning, the brain's axons are referred to as nodes. Nodes are the components of a neural network that are responsible for processing the input data and generating the output. A node is a mathematical function that takes input data, performs a computation on it, and produces an output. Each node is connected to other nodes in the network via edges, which represent the strength of the connection between the respective nodes. The strength of the connection between two nodes is determined by the weights assigned to each edge. The weights are adjusted during the training process to generate the desired results. For more information, please refer to the BCS Foundation Certificate In Artificial Intelligence Study Guide (<https://www.bcs.org/upload/pdf/bcs-foundation-certificate-in-artificial-intelligence-study-guide.pdf>) or the EXIN Artificial Intelligence Foundation Certification (<https://www.exin.com/en/exams/artificial-intelligence-foundation>).

QUESTION 3

Healthcare can benefit from AI, and in particular Machine Learning, an example of which is?

- A. Autonomous wheelchairs.
- B. Automated blood sampling.



- C. Autonomous vehicles.
- D. Diagnostic image analysis

Correct Answer: D

Healthcare can benefit from AI, and in particular Machine Learning, in a number of ways. One example is diagnostic image analysis, which can help to automatically identify and classify abnormalities in medical images such as X-rays, CT scans, and MRI scans. Machine Learning algorithms can be used to detect patterns in the data which can be used to accurately diagnose diseases and illnesses.

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.ncbi.nlm.nih.gov/pmc/articles/PMC3859976/>
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QUESTION 4

If AI undertakes routine and monotonous tasks and takes these away from humans, what will humans do?

- A. Higher value work.
- B. Leisure activities
- C. Change jobs.
- D. Sabotage the AI.

Correct Answer: A

AI is designed to take on routine and monotonous tasks, freeing up humans to take on more complex, higher value work. This can include tasks such as research, problem-solving, and decision-making. This shift in work roles is expected to

increase productivity and efficiency, allowing humans to focus on more creative and innovative tasks. For example, robots can be used to automate mundane manufacturing processes, freeing up human workers to take on jobs that require

more creative thinking and problem- solving.

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/>
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QUESTION 5

What does Prof David Chalmers describe the hard consciousness problem to be as complex as?

- A. Psychology.
- B. Turbulence.
- C. Quantum mechanics.
- D. The universe.

Correct Answer: D

Prof David Chalmers describes the hard consciousness problem to be as complex as the universe. He argues that understanding consciousness is as hard as understanding the universe itself, due to the number of variables and dimensions

involved. He has compared the complexity of the problem to that of turbulence, quantum mechanics, and psychology, but believes that the problem of consciousness is even more complex than all of these.

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] David J. Chalmers, "The Hard Problem of Consciousness", in J. Shear (ed.), Explaining Consciousness: The "Hard Problem", MIT Press, 1997.

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