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QUESTION 1

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/>

QUESTION 2

What is defined as a philosophy, or set of assumptions and/or techniques, which characterise an approach to a class of problems?

- A. An approach.
- B. A set
- C. A paradigm.
- D. An algorithm.

Correct Answer: C

A paradigm is defined as a philosophy, or set of assumptions and/or techniques, which characterise an approach to a class of problems. Paradigms are often used in Artificial Intelligence to provide a structure for problem solving, allowing for

better understanding of the problem and providing a framework for developing a solution. For example, the logic-based



approach is a paradigm that uses logical reasoning to solve problems.

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>.

QUESTION 3

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 4

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"

QUESTION 5

What are monotonous and repetitive tasks, that require accuracy BEST suited to?

A. Human plus machine.

B. Machine.

C. Human.

D. Artificial General Intelligence.

Correct Answer: B

Monotonous and repetitive tasks that require accuracy are best suited to machines. Machines are able to accurately and quickly perform tasks that require little to no creativity, such as data entry or image recognition. This is because machines are able to process large amounts of data quickly and accurately, and are less likely to make mistakes than humans. Additionally, machines are able to process large amounts of data without becoming bored or distracted, making them ideal for tasks that require consistent accuracy. For more information, please see the BCS Foundation Certificate In Artificial Intelligence Study Guide or the resources listed above. Search results: BCS Foundation Certificate in Artificial Intelligence Study Guide, Chapter 4: Machine Learning: <https://www.bcs.org/category/19669>

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