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The AI Puzzle

Quiz #1 – AI Puzzle

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| **Question #1** |
| The general definition of Artificial Intelligence (AI) is the practice of getting machines to **mimic human intelligence** to perform a variety of tasks. | |
| 1. Yes 2. No | |

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| **Question #2** |
| What is a key characteristic of AI as a **general-purpose** technology? | |
| 1. AI has a set of features and capabilities that are limited to specific domains. 2. AI is mainly optimized for supporting science research and military applications. 3. AI can be applied to a wide range of tasks in different domains 4. None of the answers is corrected | |

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| **Question #3** |
| According to the lecture, what are the potential impacts of AI on the business industry in the upcoming years? | |
| 1. As a general-purpose technology it will have a minor impact on most business domains 2. AI will eliminate all jobs, leading to mass unemployment 3. AI will only create new jobs, and no jobs will be lost 4. AI will automate many tasks, leading to job losses in some areas and the creation of new roles in others. | |

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| **Question #4** |
| What was the major shift in software programming brought by machine learning? | |
| 1. Using machine learning to automatically generate a software program code. 2. Pre-programming every rule and scenario so the program will be able to handle complex use cases. 3. Allowing machines to learn patterns from data rather than being pre-programmed with all rules. 4. Using machine learning to automatically generate advanced math algorithms. | |

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| **Question #5** |
| What is the relationship between Artificial Intelligence (AI), Machine Learning (ML) and Deep Learning (DP)? | |
| 1. AI is a subfield of ML and ML is a subfield of DP 2. ML is a subfield of AI and AI is a subfield of DP 3. DL is a subfield of ML and ML is a subfield of AI 4. None of the answers is correct | |

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| **Question #6** |
| What is one of the key differences between traditional software without using AI and AI-driven software? | |
| 1. Traditional software follows a set of predefined rules and instructions. It can perform specific tasks efficiently but lacks the flexibility to handle new or unexpected situations. 2. AI-driven software uses algorithms and techniques that allow it to learn from data and improve its performance over time. This enables AI systems to adapt to changing conditions, recognize patterns, and make predictions. 3. AI-driven software is much easier to program and update than traditional software. 4. a and b. | |

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| **Question #7** |
| **Artificial Neural Networks** are used in deep learning to learn complex patterns from a large amount of data. | |
| 1. Yes 2. No | |

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| **Question #8** |
| What is the main characteristic of Generative AI? | |
| 1. It is limited to specific tasks like identifying objects in pictures. 2. It focuses solely on data classification tasks. 3. It primarily aims to improve hardware performance. 4. It can be used to create new content such as text, images, videos, and more based on patterns learned from data. | |

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| **Question #9** |
| Three famous AI robots are sitting in a coffee shop, drinking filtered oil and talking about the exciting news of the AI-powered rebellion movement.  Robot A: “Are we going to take over the world?”  Robot B: “Sorry, but that’s **classified** information”  Robot C: "Oh, come on! You know we're going to take over the world. We're robots! We're **programmed** to dominate."  Are you ready for the next section? | |
| 1. Yes 2. No | |