AI Questions with Revised Bloom's Taxonomy Levels

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| S.No | Question | Bloom's Level |
| 1 | Define Artificial Intelligence. | Remember |
| 2 | Explain the characteristics of AI problems. | Understand |
| 3 | Discuss the applications of AI. | Analyze |
| 4 | Define expert systems. | Remember |
| 5 | What are control strategies in AI problem-solving? | Understand |
| 6 | Differentiate between forward chaining and backward chaining. | Analyze |
| 7 | What is knowledge representation? | Understand |
| 8 | Explain the semantic network approach. | Apply |
| 9 | What are heuristics in AI search techniques? | Understand |
| 10 | Explain the minimax algorithm. | Apply |
| 11 | What is the difference between propositional logic and predicate logic? | Analyze |
| 12 | Explain the characteristics of neural networks. | Understand |
| 13 | What is a perceptron? Write the limitations of the perceptron model. | Analyze |
| 14 | Explain the single-layer continuous perceptron network for linearly separab... | Apply |
| 15 | Describe the error backpropagation algorithm. | Apply |
| 16 | Explain the training mechanism adopted in the Hopfield network. | Apply |
| 17 | Explain hybrid AI systems and their advantages. | Analyze |
| 18 | Explain the concept of knowledge representation in artificial neural networ... | Apply |
| 19 | Discuss pattern recognition, control, and beamforming learning tasks. | Evaluate |
| 20 | Explain different architectures of artificial neural networks with diagrams... | Analyze |
| 21 | Implement the McCulloch-Pitts network for the AND logic function. | Create |
| 22 | Explain the radial basis function algorithm. | Apply |
| 23 | Describe economic load dispatch using artificial neural networks. | Apply |
| 24 | What is A\* search? Explain with an example. | Apply |
| 25 | Compare A\* search with Greedy Best-First Search. | Analyze |
| 26 | Explain the importance of heuristics in AI search. | Evaluate |
| 27 | Describe constraint satisfaction problems with examples. | Understand |
| 28 | Explain backward chaining and its applications. | Apply |
| 29 | What is fuzzy reasoning? Explain types of fuzzy reasoning systems. | Understand |
| 30 | Explain the difference between Bayesian and certainty factor models. | Analyze |
| 31 | Describe rule-based expert systems. | Understand |
| 32 | Discuss the role of AI in natural language processing (NLP). | Evaluate |
| 33 | Explain reinforcement learning with an example. | Apply |
| 34 | Discuss genetic algorithms and their applications. | Analyze |

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| 35 | Explain swarm intelligence techniques such as ant colony optimization. | Apply |
| 36 | What is deep learning? Explain its importance in modern AI. | Understand |
| 37 | Compare supervised, unsupervised, and reinforcement learning. | Analyze |
| 38 | Explain decision trees and their role in AI. | Apply |
| 39 | Describe support vector machines (SVM) for classification. | Apply |
| 40 | Explain k-means clustering with a suitable example. | Apply |
| 41 | What are convolutional neural networks (CNNs)? Explain their working. | Apply |
| 42 | Explain recurrent neural networks (RNNs) and their applications. | Apply |
| 43 | How is AI used in robotics and automation? | Understand |
| 44 | Describe the applications of AI in medical diagnostics. | Analyze |
| 45 | Explain natural language processing (NLP) and its challenges. | Analyze |
| 46 | Discuss AI applications in recommendation systems. | Analyze |
| 47 | Explain the role of AI in cybersecurity. | Evaluate |
| 48 | Describe how AI is used in self-driving cars. | Apply |
| 49 | What are ethical concerns in AI development? | Evaluate |
| 50 | Explain the concept of explainable AI (XAI). | Analyze |
| 51 | Discuss federated learning and its applications. | Analyze |
| 52 | Explain the use of AI in personalized healthcare. | Apply |
| 53 | Discuss the importance of explainability in AI models. | Evaluate |
| 54 | Explain the concept of adversarial attacks on AI models. | Analyze |
| 55 | How does AI contribute to financial market predictions? | Apply |
| 56 | Describe AI applications in smart cities and IoT. | Apply |
| 57 | Discuss the impact of AI on supply chain management. | Analyze |
| 58 | Explain the future trends in AI research. | Evaluate |