

| S.No, | Question, | Revised Bloom's Taxonomy 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 separable classification., | 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 networks., | 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 |
| 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