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