

BE Semester- 7th CE Question Bank

(Artificial Intelligence)

All questions carry equal marks (10 marks)

Q.1	What are the Problem Characteristics of Artificial Intelligence?
Q.2	Explain the State Space with the use of Water Jug Problem.
Q.3	Differentiate the DFS and BFS with merits and demerits.
Q.4	What is Hill Climbing? Explain Simple Hill Climbing .
Q.5	Explain the Non-monotonic reasoning.
Q.6	Explain the State Space with the use of 8 Puzzle Problem.
Q.7	Explain the Best-First-Search Procedure with example.
Q.8	Explain the Bayesian Networks.
Q.9	Explain Probability and Bay's Theorem.
Q.10	Solve the following Cryptarithmic Problem. S E N D + M O R E M O N E Y
Q.11	Describe briefly the applications of Neural Networks.
Q.12	Explain A* algorithm.
Q.13	Solve 8 Puzzle problems by any AI Technique.
Q.14	Explain Steepest ascent Hill climbing algorithm.
Q.15	Explain Semantic and Syntactic analysis in NLP.
Q.16	Solve the following Cryptarithmic Problem. B E S T + M A D E M A S E R
Q.17	Explain the algorithm for Back-propagation in Neural Networks.
Q.18	Explain AO* algorithm.
Q.19	Explain semantic net with example.
Q.20	Explain Fuzzy Logic and its application.
Q.21	Describe briefly the applications of AI.
Q.22	Explain Production Systems and Production Characteristics.
Q.23	Discuss Means-Ends Analysis.
Q.24	Discuss Representations And Mappings.
Q.25	Describe different Approaches To Knowledge Representation.
Q.26	Explain Instance And Is a Relationship with example.
Q.27	Write short note on Computable Functions And Predicates.
Q.28	Discuss Procedural Versus Declarative Knowledge.
Q.29	Discuss Forward Versus Backward Reasoning.
Q.30	Explain Rule-Base Systems with example.
Q.31	Explain Dempster-Shafer Theory.
Q.32	Write short note on Semantic Nets.
Q.33	Explain Goal Stack Planning.

Q.34	Explain Discourse And Pragmatic Processing.
Q.35	Explain Hopfield Network.
Q.36	Explain Connectionist AI And Symbolic AI.
Q.37	Write short note on Expert System.
Q.38	Discuss knowledge Acquisition.
Q.39	Explain Basic List Manipulation Functions In PROLOG.
Q.40	Explain Property Lists & Arrays in PROLOG with example.