

HKBK College of Engineering
Department of Computer Science and Engineering

SEMESTER - V **Artificial Intelligence**

Question Bank - Module 3

	Module - 3	СО
1.	Explain the greedy best first search algorithm with examples.	1
2.	Explain A* search algorithm in detail with example.	1
3.	Explain the following: i. Admissible heuristic ii. Consistency iii. Optimality of A*	1
4.	Explain memory bounded heuristic search algorithms with examples and mention their limitations.	1
5.	Explain heuristic functions in detail for an 8-Puzzle example.	1
6.	Explain the following: i. The effect of heuristic accuracy on performance. ii. Generating admissible heuristics from relaxed problems. iii.Generating admissible heuristics from sub problems. iv. Learning heuristics from experience.	1
7.	Explain knowledge based agents in detail.	1
8.	Explain various levels of knowledge based agents	1
9.	Explain wumpus world in detail.	1
10.	Define propositional logic and explain its role in representing knowledge in AI systems.	1
11.	Explain the real world applications example where propositional logic is efficiently employed.	1
12.	Analyze a scenario and demonstrate the application of reasoning patterns in propositional logic to derive conditions.	1