- 1) What is A* search algorithm?
- 2) what are methods used to colculate distance approximation heuristically?
- 3) what is a neuvistic function!
- 4) What are agents ?
- 5) How does an agent use sensore
- 6) why IDS is better than other search algorithm 9
- 7) Where are algorithms implemented in real life.

Answers

- 1) At search algorithm is a technique used in graphs and path finding problems. It uses different heuristic and makes its job easier.
- 2) The methods are ->
 - @ Euclidean distance
 - @ Manhattan distance
- 8) A heuristic function is a function used to decide on which path to follow when a cost number of paths or ways are possible. It finds the best path to go on.
- 4) An agent is anything a that can sense its environment using its gensors and act upon it essing Actuabox.

- s) Agent uses sensors to sense Pts environment. Each sensor senses a particular entity and provides the information to the agent.
- 6) IDDPS & always provides optimal answers in the some space and time complexity as DFS and BFS.

10

The real life At algorithm are used in Maps as in Google maps when finding the path, and calso some games used this.

IDDFS is also used to find paths and optimal solutions