1. What is A* search algorithm? 2 What are the diff method used to cake distance affroximation heuristically? 3. What is a heuristic functions? 4. What are agents? 5. How an agent uses sensor functions?
6. Why IDS is better than other search algorithm.
7. Where are A*, IDS are inflemented in real-life? Ans! A* is an informed searching algorithm. It makes use of 2 heuristic functions to find potend cost from scource to destination eg - 8 herzle fraklen. = f(n) +g(n) f(n) - Manhatlan distance hewistics g(n) - distance of ron goal red: A* always probles afternal solution

Ans 2: Defferat methode -1. Manhatlan distance (number of mustaced titls) 2. Defth (Distance from so stource made) 3. Eucledian Ans: A hewistic fuctor, is a function that rank ratternatives in searching algorithms at lack branching step so as to dicid which fath to fallow based on given information Ans 4. An agen in an AI marchine es an indefendat entity ruhase function is to act in order ta achère a goal gion. Diff types -1. Sinfle Refleck 1. Model beased. Ans. An agent can make use of senses based ren its fercest from surrounding.

eg-Lamera to see the surrounding, Motion General for Speed. Sound sensor for noise Ans 6 IDS is letter than DFS, BFS because IDS make use const of max-delth which relians the traversal only at a till a rectain depth and all mades within that deft are build. It saves lot of memory + time by reducing stare & time conflict IDS - It is implemented in that various games Such as 8-fuzzle & game A* - It also proudes afternal Solution eg - Finding shortest route in mos from Size to dest.