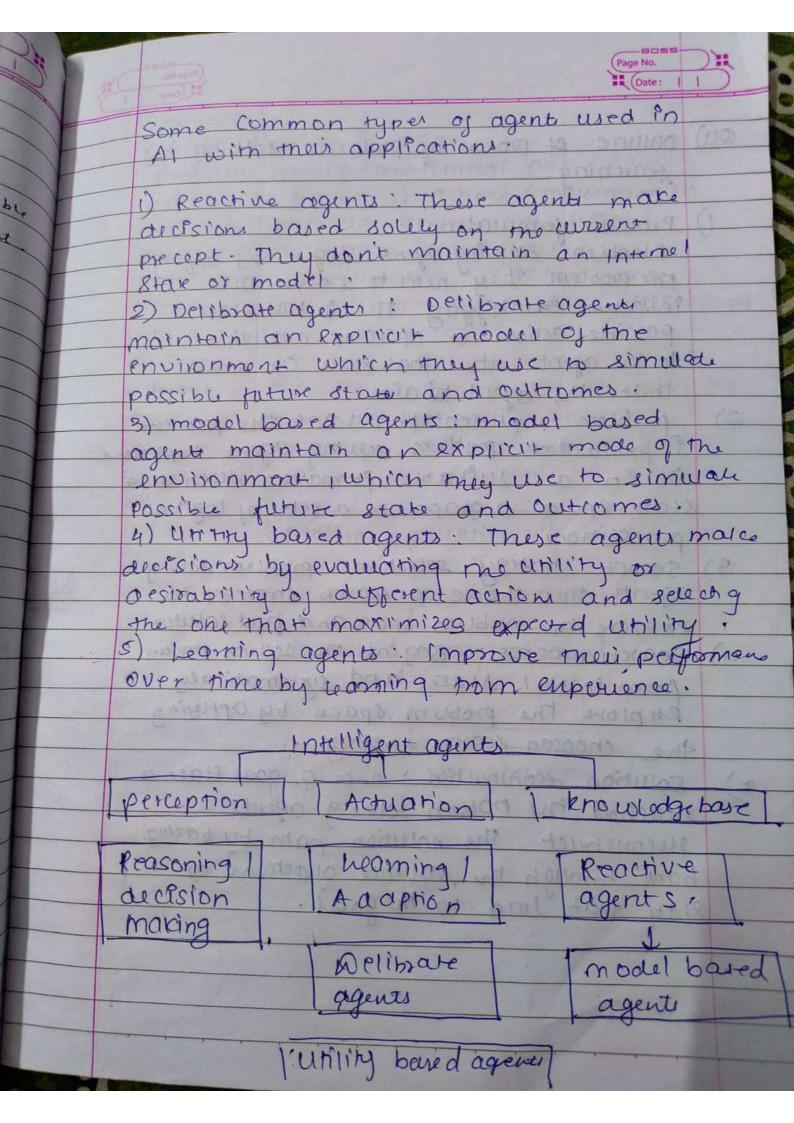
Aditt. Gupta Page No. Date: | | AI 9762 . Karend Rationauty supors to the ability of an agens to make decesions that are expected to maximize Pts chances of achieving its goals given the available info and resources. A rational agent Is one that chooses consistency, actions that du optimal or near optimol-Here's now rationality relates to agent behavious 1) Goal duected behaviour. Rational agents are duiven by goal or objectives they aim to agrieve their are selected based on their arresment of how likely those acrions are to bring them closes to their goals. Mecision making under uncutainity. In many sual would scenarion agents dont have complere information about their environment or the ouromes of their action, kational agents man decision for weighing The available evidence and arresig the port probablines of different ownomes-3) Adoption to changing invivonment Environment is are often dynamic and rational agents need to adopt the behavious accordingly this adoption Involves continously updaling their beliefs and strategues based on new information and Strategui (1) Tradight and eusowies constrains : kanional agin must often marce trade of due to United resources such as time energy or superted gierd hignest un'uny or payoft.

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(Date: 03) The typical components of an intelligent in cluck the man 1) perception: This component Ps Mesponsion for sensing and precieving the environment It gathers enformation from sensors which could be physical sensors like comeras and mecophones in robotics or abstract senson like data enput in software agends. Actuation: The actuation component store the agent to PATERACT wim environment it consist of effactors which are mechanica through which the agent can extert control over enfluence its symounding Knowleage bare: this component stores the agent internal suspresentation of the word knouding in belieb, goais, plan. and past inperior Reasoning: The reasoning component process intermention from the preception module and the knowledge base po mare decision and choose decesion mat are expected no acmerir the agents goals. L'Ecoming ladaption: Intelligent agent can pean pomenpouence and adopt their behaviour time some common types of agents can learn prom experience and adopt their behaviour over rime.



QU) outline of process of problem solving by searching. 1) Problem formulation: Phoblem solveng agents begin by defing the problem they need to solve the Possible action of grang the initial state, possible actions or operator available to the agent - the goal state or state that the agent pain 2) problem uppresentation: once the problem Ps formulatora problem solving agent supplement it in a suffable formalism such as a state space a graph or a set of logical propositions with the month 3) search strategy selection; problem solving agent men choose a search strategy to explore the problem space and find solution u) searen process: - Begins me search proces from initial state and systematically enplose the problem space by applying the choosen search snategy ... s) solution reconstruction: once 9 goal slate a seached the problem solving agents seconsmict the solution pam by tradez back mough me sequence of our on or State that lead no me goal

