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	Name:	Class & Div. :	Page No.:
	Subject:	Topic:	Date:
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mbters and achiators for effectors. dophuare agent has encoded bit study as Agent of tructure can be whened as a Combination Of agent architecture and Agent purguen.

Agent Architecture refers to the machinery of

That an agent executs on whereas Agent

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function. Four Important types of aspent arch / returnes. State Agent How word from 1s the would Pictat my How 90 He? actions do would like what achors 1 need to do! what action ! Conditionneed to as! Auron Effectors (Effections (b) Madel Based Reflex Agent. (a) dimple Replex Agent

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Subject:	Topic:	Date:	
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the Current percept only. They are navional only if a Correct decision is made only on the basis of Current precept. Agent environment for buch agents in a model of the looked to these their agents use a model of the looked to these their actions. They maintain an Internal stake as a periosistent information, there the model means tracked of the object of the things lappen in the world that is representation of unobscrived aspects of current state depending on percept fistory. Agent take Into account how to achieve goals. If out their actions in order to achieve goals. If out the Inow-ledge supporting a decision is explicitly modeled thereby allowing the modifications. If ally the description of decisiate situations. Thatly the			
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Whitity Based agents choose actions based on a preference (withty) for each stak I goals are inadequal when there are conflicting goals, out of which only for Carbe actioned, goals have stome uncertainty of being actioned and you need to weight whethere of a goal. On the Other land whility function object very map how much being in a particular steet is a much being in a particular steet is residele. An AI agent is referred to as Rational Agent A rational agent always performs wight action, where the eight actions meens the action that Causes the agent to be most Succeptul In the given percept sequence. The publishment the agent solves in characterized by performance theorem. Environment, Actuators, and Jensons (PEAS). These are Collectively referred to on Pean discriptore for the agent took environment PEAS descriptous provide important into agent and the tack envisionment It operates In These Insight are very useful in agent design. Prother Important piece of Information is take environment properties, while analysing tak environment the agent architect needs to Consider following properties: > Distrete or Conknows - Il here are limited

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	Subject:	Topic:	Date:
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that as that of the agent. These agents may be co operating on competing with each other. J. Acceptible on Inacceptible gitte agents densony apparatus con land accept to the Complete State of the environment, then the environment is accomible to that agent. Working Sparch enternet for AI based applications in following scenarios and Identity who is agent for that application. Twether est out PEAS descriptors for agent environment in each of the Case. Finally try to Classify task environment properties like a list of attributes from above list of I took environent puoperities. Dep Blue Chen plouting Computer Peroquam 3 Eliza the natural language pero cerolite computer perogram weaked 1964 to 1966 at the MIT printiclar Intelligence Laboratory by Toolph Weizenbaum, Ly Automatic Portfolio Management. 5> dophia is a double humanoid most developed by Mary Kang based to Mauson puroducts. of Alpha go is a computer purguan that plans the board game etc. It was developed by Alphotat Inc Deep Mind

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	Subject:	Topic:	Date:
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Densors: User texts Inputs Task environnent puoperties: Continous. Aury Observatie Natic, Descriministic. Dequertial, dingle agent, Accessible. 3) Dophia is a social humanoid motor developed by thong Kort based Company thanson Robotico. Performane measure? undersaraing user maintaining Conversation, facial expressions respond time. Environment & Humans, objects... Actuators: Arms, mouth, lep, speaker sorous lys (camus), ears, nic, andis None Task environment propersies: Continous, fury observable Dynamic, Determinance sequential, single agent accessible. 4) Apples virtual assistan dissi Performance Measure? Understanding uses text and speech, pusawing best results, summoning (thinggur), response speech, text environment? User, speech, text Aprecha mobile suren, speaker demons? Mobile Suren, speaker Task Environment purperines? Controves, July opperwesse, State, Dellimin

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	Subject:	Topic:	Date:
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