Mark lopes 9913 7/2/25 AI - Game Sheary 0.1 A game with imperfect informalia, cir is game where at least are player does not know all the previous cartions con information about other flager This haffens when players make deasien without knowing everything whout the game state @ Example: - Rock , paper, scissors In Rock, paper, Scisson, Joth playere without browing what other has Since they carried see their apponen shave before deciding, it is a game with compensation



æn	0.2 A Bayerian game in a game in which player have incomplète information
	playere have discomplète cinformation
	valout same with to the
-	such au proferencer, payceffe vor type
	cor hunter.
<del></del>	However, they have productities about these unknown factors, which helps them
	there rulenoun faction, which helps them
	make atratégic décisione.
1	
	Idour they differ: -
	1. Incomplete information us camplete
	einformation:
	An Roughing some hlaven de not
	In Bayesian games, players de not have full knowledge of payoffs.
	Jan fun Branding of tragoffs.
	01-1 111-
-	2. Beliefe and probabilities:
-	Bayesian gamee ree prochability
	Bayesian gamer use proclability distribution to model uncertainty.
	3. Strategie decision making:
	Planer in Banerian rame mut take
	Playeri in Bayerian gamer mut take make decision haved van enpertatione
	and trick.



Q.3. The maninin strategy in a decision rule wed in strictly competitive games (zerosum games), cutere ca player chooses the ception that maninize their minimum payoff. Application: -In strictly competitive game where cone playeri gais in other lose, the maninin strategy helpe a player minimize rule by ensuring they get best possible outcome in monst dase 0.4 Menomorphix hure strategy aguilibrium i) In this equilibrain, call player always chaose the same strategy every time grane in played. ii) There in no trandamnesse air edecision making. 2] Rolymorphic mined strategy equilibrium i) In This equilitarium, playere trandonly charce between muttiple strategue haved an specific probabilities. i) This introduce rearriability in sharier preventing predictability



Q.5	In of infinitely oreheated games, the same game in played repeatedly without a known ending.
	Key værette ändude:-
	1. Possibility of do-aperation:- Unlike cone-shoot games, vieneated unteractions allow for etrategies like "Tit-for-tat", where players upperate as long as the appropriate does.
	Phreati and Punishmenti:-  Playere can we future viewards con punishments to influence current decision. For example, in priving way, firm may maintain high price to avoid future victoriation.

0.5-1 Subgame Renfert Enqueliterium (SPE) A sulgame perfect equilibrium à cantinal decision making process at every stage of the coans It prevente empty each player strategy vational at every. in the game