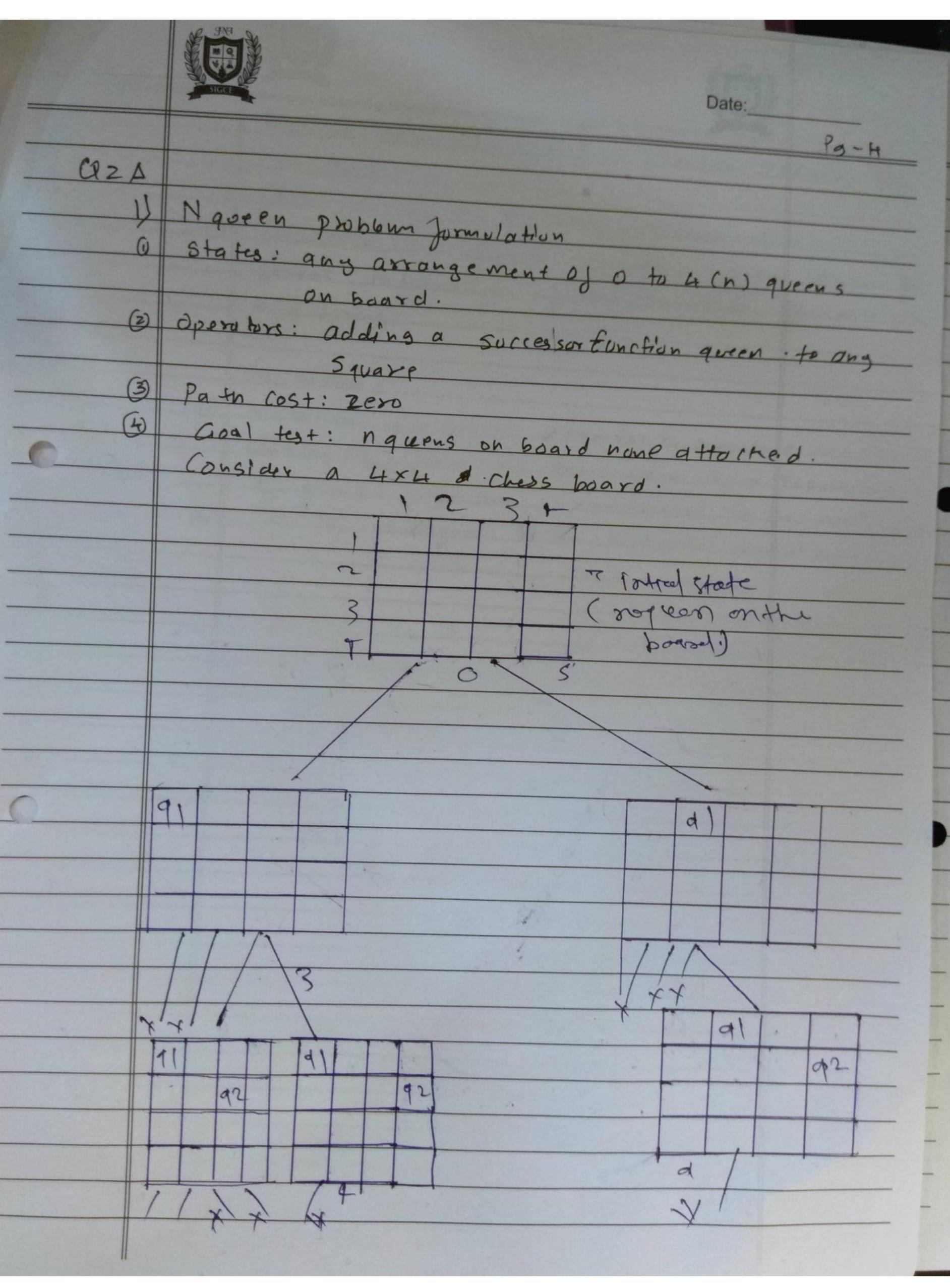
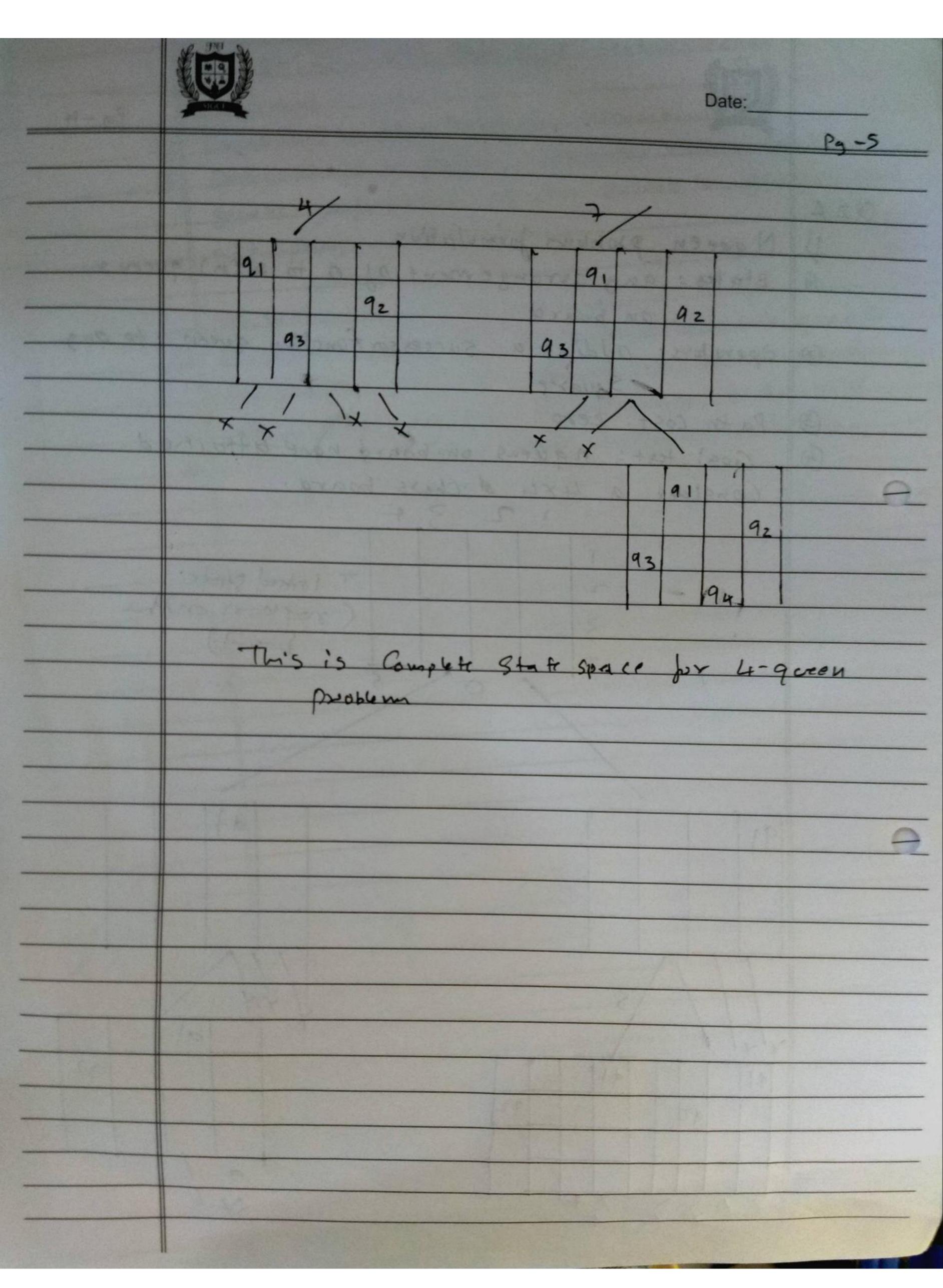
	(Date:
	Syllabus - RIb Class - RE Sem - VII PS - Reg No - 2017 COZ Seat No - 727 8650 Sub - Alsc
01	MCQ
- 1)	Option: D: Utility Based Agent
2)	Option: B: Unification
3)	Option: A: 3x glitters (x) A is guld (x)
4)	Option: D: One
5)	Option: C: ABDECFG
6>	Option: A: Forward State Space Search
7)	Option: B: Crossword
8)	Option: A: W1 = 1, W2 = 1. T=1
9>	Option: A: 238
10)	Option: B: Plateau.

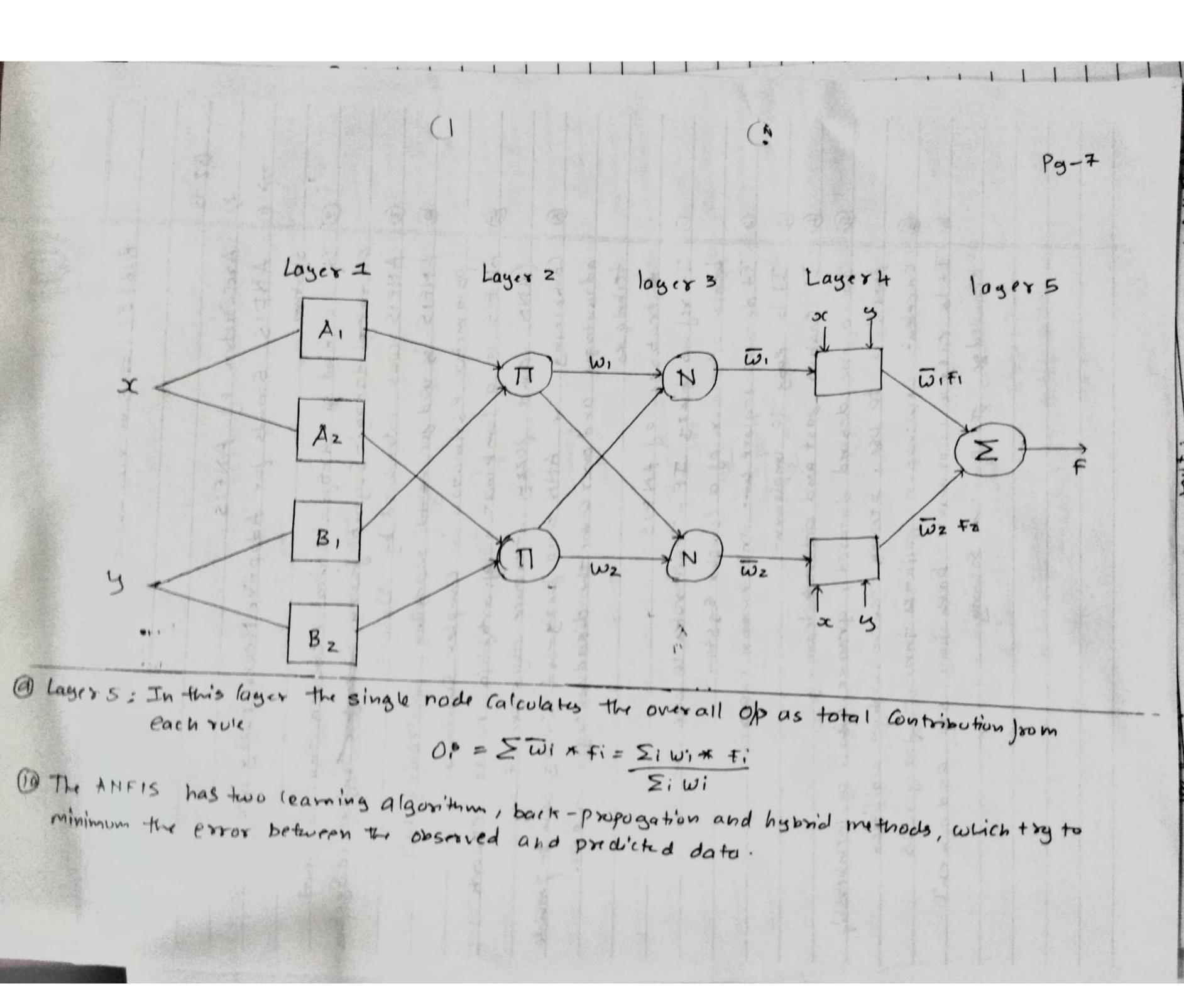
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	Ps-2
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Christophia proportion de la compansión	Reg - 2017C02 Class - BE Sub: AISC
An A	
QZ A	
2)	PEAS
abertura de la composición dela composición de la composición de la composición de la composición dela composición dela composición dela composición de la composición de la composición dela composición de la composición dela composición	PEAS Stands for Performance; Environment, Actuators
(2)	and Sensors
(2)	Based on this properties of an agent, they can be
	an or again that a train each other.
(3)	mas her properties deline by it
	measure Lys: It specifies the performance
	The agent.
	[1] Environment[E]: It specifies the surrounding Condition
THE RESIDENCE OF THE PARTY OF T	where the agent has to perform a task.
	(11) Actuators [A]: It specifies the tool available for the
	agent to complete the task.
	IV) Sensors [5]: It specifies the tool organized to sense
	the work environment.
	PEAS for Robot mount for cleaning the house.
6	Performance Measure [P]: Maximize energy Gusumption
	Maximize Dirt Pickeup, Perrentage of
	Precision of cleaning.
(2)	Environment [E]: House, Dirt Distribution Unknown,
	assume actions ax deterministic and environment
	is Static.
(3)	
	Robot, Left, Right, Suck and NoOp.
(4)	Sansors [S]: Comera Orientation and touch sousors to
	identify the distand potentionetric Sensor.
	Enrironment: Partial's Observable, Stochastic, Dynamice
	Continuous and Multi Agent.

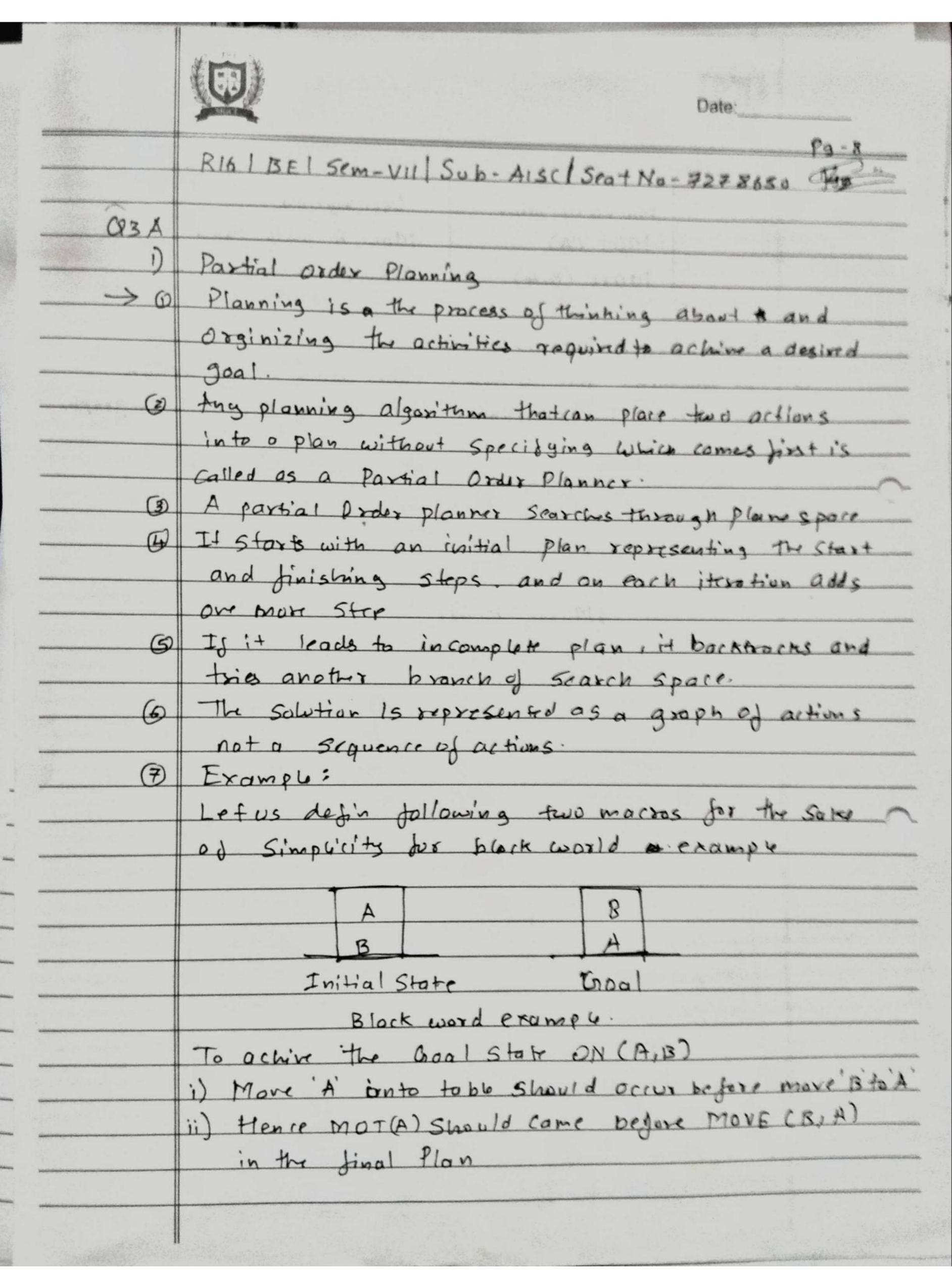




		Date:
	R16   BF   WIII Sub: A	Pg-5
02 5	7	5   5cat No - 7278650 735
2		
->	Architecture of ANFIS.	
	DANFIS Stonds por Adapt System.	ive Heura Fuzza intel
	DITTIS OF CIA	J. Marie
	Dit is a kind of artifical news	ral network that is bascul
(3)	ANFIS was introduced by	224 interprintessence Sesten
4	ANFIS was introduced by  ANFIS is used by	Jang.
	ANFIS is used for months more  Parameter estimations in a	deling, controlling and
6	Parameter estimation in Con ANFIS is a Combination	mplex systmas.
	ANFIS is a Combination of  (ANN) and Juzzy inferen  Combining the ANN and	artificial neural network
6	Combining the ANN and h	System (FIS).
		disades theory can be provide
		issurvantages in both
	* Fratures of ANFIS:	1 - 1 - 3 - 3
	It refines fuzzy IF - THEN X	ules to describe the
6	benaviour of a Complex 6	u ctem.
(3)	It docent require an prior ho	man expertise.
	17 12 easy To implement	
(S)	If Chabbs Jost and accurate	learning.
	It offerse desired datases,	greater Choic of membership
63	Trong ger	save lization alilia
0 -	Excellent explanation facilities	through Juzzy miles.
	It is case to incorporate both	linguistic and numer's
	Knowledge for probbin. solving	•
	The same of the sa	
	The same of the sa	

	Date:
	RIG BE Som-VII Sub-AISC) Scat No-7278650 Pg-6  ANFIS Architecture.
0	In order to explain ANTIE
	there are two inputs x and as
3	Two fuzzy if - then rules for a first order sugeno fuzzy model an be expressed as follows:
	model an he are to for a first order sugena Fuzzy
	model an be expressed as follows.  Rule 1: il vicin al
	Rule1: if x is Ar and By is BI then FI= pix+qiy+ri
(3)	CONTRACTOR OF THE PROPERTY OF
	We tuzzy gots, ti is to a west
	I ar The design parameter that are
	Dairing Doncesco
(4)	The ATTIS architecture used to implement the tour
	15 Shown in figure.
(5)	Layer 1: Inthis layer, each node represents node function.
	Di=UAiCOC), sox i=1,2.
	when x is the input to the it node. Ai is the linavistic
	label Characterized by proper membership functions-
	Some of the member ship for Ctions ar triangle, trapezoidal
	and Caussian.
(B)	Larger 2: Each rade Calculate The firing Strongfu of
	vole by multiplication.
	$O_i^2 = w_i^2 = uA1 (5c) * uB1 (y), i=1,2$
( <del>7</del> )	Layer 3: In this layer, Fining Strongth that were
	evaluated in the parvious layer are normalized to
	distinguish between the firing Strongth of role from
	the total firing strengths to total ouleg.
	$0i^{3} = \overline{w}i = \overline{w}i,  i=1,2.$ $w_{1} + w_{2}$
8	Layer 4: Noide i scalculates the contribution of ith rup.
	to overall output:
	$-0i^{4} - \overline{w}i * fi = \overline{w}i(pi*x+qi*y+ri)$
	Where Wi is the output of layer 3.





		1		Pa
		Macro operator	04	19
		MOT (A)	- Stignon	
		MOVE (B,A)	Movy A onto table	1 2 70
	*		MourB onto A.	
	Partial e	order Planner a		
- 11		THE ALLE		
	to max	ck the hearing	sond end of the plan	ction
		Prainin	g and end of the plan	مراه ما م
				1 3.4
		15 faxt	Teltass a la Laiten	
		*	Contract of the contract of the	2 1
5.L.		MOT (B)		
		V	Command by	
		MOVE (A, E	3)	
	ALCOHOLD TO		and the stock of the	-
	- 3729	Finish	CONTRACTOR AND	
22.12	3 3 G Cre 1	State of the state of		
		2 miles	13 33 33 33 33 3	
NS 15-	Y see	Charles Just A 18 12		7
7	100 K B B 19	a Bloom A and	and the same of th	
		3 - 1		
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		Date:_	P9-10
	RIGIBE   Sem-VII   Sub: AIS	15eat No- 72786	The state of the s
Q3A			
2>	Expert System.		
→ ©	Expert Bystems are Artis	icial Intelligence	tools .
	It capture The experties o		
	provide advice to usually		
	domain		
(3)	In artifical intelligence	an-expert syst	em is Computer
	System that emulates the		
	human expert.		
<b>6</b>	Expert systems are des	igned to solve (	omplex
22	problems by reasoning	about Knowledg	represented
	primarily as if - then		
	Conventional procedur		
6			tchrology
	Often called Expert 5		
	Architecture of Expe	xt System.	
£	Human -> Knowledge ->		
profesion 5	Expert Engineer	Knowledge Base	
		1	
			\$ 653
		T	
		Interface Engine	
	Expert System Architecture	1	
	Architecture		
2012		<u> </u>	> User
	Line with transfer of the kind	User Interface	(Non-expert)
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The state of the s		(110n - (ryes)
	The second contract of	San Andreas Contraction Contra	A A STATE OF THE S

	Date:
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	10 Filss 15eather 7225 11 27 20
	Characteristic of Expert system.
DI.	Reliale Duderston 1.
3	Reliable Underston dets
	Highly occount
	Components.
0	Knowledge Base:
(i)	Knowled & Base:
-	Knowledge Base is database Toles.
	Li contains domain - specitic
	It Contains domain - specific and high quality
	phowledge is
IV,	The success of a Expert System majority depends
	Upon the collection of his his more mayority depends
	Upon the collection of highly accurate and grows
(2)	Interface Engine:
(i)	Interface engine orquires and manipulates from the
11	
	amir of a particular solution.
(ii)	Interface Engine use 500 from.
	Interface Engin ver Forward & Bockward Chairing  Strategies.
	310
3 112	ser Interface:
1:)	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Iger interface provides in trottion between user of the
	sper 195 rem and the Expert some
117	1 15 generally Naturally Canquere Provessing the
A RESEARCH TO THE RESEARCH TO	- DIG DS ITT USIT who is evel - versed in the term
111)	he Usersa) expert need not be expert in AI
[(vi	+ explains how the Expert System has annived +
0	particular recommendation.

	Date:
	R16   BE   Scon-VII   2017 CO2   Scat No-7278650 P9-13
Q4 A	
2)	Membership Function:
->0	Membership fonctions were first introduced in 1965
	Just A. Eaden in first research Paper " fuzzu sets"
(2)	Touthou That specifies the degree to which given input
	Mow v as Membership Function
	Membership junctions Characterize juzziness, who buther
4	Membership functions are used in juzzification and
	dejuzzification steps of a FLS (Fuzzy logic system),
	to map The non juzzy input values linguistic and
~	a. VICE Versa.
(S)	Membership functions are represented by graphical form.
	Types of Membership functions  a) Increasing MFs (Tfunction):
- 11	b) Decorasing MF. (L Function)
- 11	c) Triongular MF (1 Function)
- 11	d) Trapezoidal MF (IT Function)
- 11	e) Gaussian MF
	f) Generalized Bell MF   Cauchy MF:
	3) Sigmoidal MFs:
-	

	Date:
QIB	R16   BE   5 cm VII   5 0b - AISC   5eq + No - 727 8650 Pg-14
	Genetic Alganitan
(Z)	Genetic algorithms are part of evolutionary Computing, which is a rapidly growing area of Artificial intelligence Genetic Algorithms are inspired by Darwins theory
(3)	It is an intelligent rouder a
	Genefic Argonithm uses encode Salvi mobbons.
	Genetic Algorith work by free.
	and getting a score indicating How good that  Solutionis.  The set of all possible solutions [D 1000] is called  as scorch space by state space.
G	Chromosome In genetic algorithm, a Chromosome is a set of parameter which define a proposed Solution to the problem that the
3	genetic algo is to solve.  The set of all Solutions is Irnown as the Population.
(2)	Fitness Function:  A sitness function is particular type of objective function.  The fitness function is a function which takes a  Candidate solution to the problem as input and produces  as output how "fit" par how "good" the solution is  with respect to the problem in Consideration.

	Date:
	RIG BELSCM-VII Sub: AIST   SeatNo-7278650 Pro-
(a)	Crossover is a genetic operator used to Combine the genetic information of two parents to generate new
	Mutation:  Mutation is a genetic operator to mantain genetic diversity from one generation of a population of genetic algorithm chromosomes to the next.  It is analogous to the biological mutation.
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Alexander .	The single property of the second of the sec
	The state of the s