Total No	o. of Questions : 8]	30	SEAT No.:				
P814	[5870] - 1	1135	[Total	No. of Pages : 2			
	T.E. (Computer E	y	ing)				
ARTIFICIALINTELLIGENCE							
(2019 Pattern) (Semester - II) (310253)							
	½ Hours] ions to the candidates:		[A	Max. Marks: 70			
111511 ucu 1)	Answer Q 1 or Q 2, Q 3 or Q 4, Q 5 or	Q 6, Q 7 or	$\cdot Q$ 8.				
2)	Neat diagrams must be drawn whenever						
3)	Assume suitable data if necessary.						
			3				
			:2'				
Q1) a)	Explain Alpha - Beta Tree search example.	h and cut	off procedure	in deatil with [9]			
1)		Po.1					
b)	What are the issues that need to be Explain the solutions to them.	addresse	d for solving e				
	Explain the solutions to them.	2,00		[9]			
	O	R					
Q2) a)	Explain in detail the concepts of ba and solve the N-queen problem us		•	nt propagation [9]			
b)	Write a short note on Monte Carlo	Tree sear	ch and list its l	imitations. [5]			
c)	Apply constraint satisfaction meth	hod to sol	ve following P	Problem ,			
	SEND + MORE = MONEY. (TWO +	TWO = FOU	JR, CROSS+			
	ROADS= DANGER)			[4]			
	>)			80.			
Q3) a)	List the inference rules used in prepwith suitable example.	positional	logic? Explair	them in detail			
b)	Explain syntax and semantics of F	First Orde	r Logic in deta	iil. [8]			
	OR	CY	300				
Q4) a)	Detail the algorithm for deciding e	entailment	in preposition	al logic. [8]			
b)	Explain knowledge representation	n structure	e and compare	them. [9]			
		0.		Р.Т.О.			

Q5)	a)	Explain Forward and Backward chaining. What factors justify whe reasoning is tobe done in forward or backward chaining.			
	b)	What are the reasoning patterns in propositional logic? Explain their detail. OR	n in [9]		
Q6)	a)	Explain unification algorithm with an example.	[8]		
	b)) Explain knowledge representation structures and compare then			
	c)	What do you mean by Ontology of situation calculus?	[3]		
Q7)	a)	Analyse various planning approaches in detail.	[9]		
~ /	b)	Discuss AI and its ethical concerns. Explain limitations of AI.	[8]		
		OR OR	. ,		
Q8)	a)	Explain the terms for time and schedule from perspective of temp			
		planning.	[9]		
	b)	Write a detailed note on Al Architecture. C3 C3 C3 1135	[8]		
[587	[0] -	1135			