Total	No	o. of Questions : 8] SEAT No. :				
P81	4	[Total No. of Pages	: 2			
		T.E. (Computer Engineering)				
ARTIFICIALINTELLIGENCE						
(2019 Pattern) (Semester - II) (310253)						
		Max. Marks:	70			
j	1)	Answer Q 1 or Q 2, Q 3 or Q 4, Q 5 or Q 6, Q 7 or Q 8.				
	2) 2)	Neat diagrams must be drawn whenever necessary.				
	3)	Assume suitable data if necessary.				
<i>Q1</i>)	a)	Explain Alpha - Beta Tree search and cutoff procedure in deatil w	ith			
2 /	,		[9]			
	1. \	What are the issues that we alto be a Heaved for solving any officient	10			
	b)		1y ? [9]			
		Explain the solutions to them.	נין			
		OR				
<i>Q2</i>)	a)	Explain in detail the concepts of back tracking and constraint propagati	ion			
2 /	,		[9]			
	1. \	White a short note of Monta Coula Trace acoust and list its limitations	[5]/			
	b)	Write a short note on Monte Carlo Tree search and list its limitations.	[5]			
	c)	Apply constraint satisfaction method to solve following Problem				
		SEND + MORE = MONEY. (TWO + TWO = FOUR, CROS	S+			
			[4]			
Q3)	a)	List the inference rules used in prepositional logic? Explain them in de-	tail			
		with suitable example.	[9]			
	b)	Explain syntax and semantics of First Order Logic in detail.	[8]			
	-)		[-]			
		OR O'				
Q4)	a)	Detail the algorithm for deciding entailment in prepositional logic.	[8]			
	b)	Explain knowledge representation structure and compare them.	[9]			
			T ^			
		P.7	<i>T.O.</i>			

Q5)	a)	Explain Forward and Backward chaming. What factors justify whet reasoning is tobe done in forward or backward chaining.	her [9]
	b)	What are the reasoning patterns in propositional logic? Explain them detail. OR	n in [9]
Q6)	a)	Explain unification algorithm with an example.	[8]
	b)	Explain knowledge representation structures and compare them.	[7]
	c)	What do you mean by Ontology of situation calculus?	[3]
Q 7)	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 tempor planning.	ral [9]
	b)	Write a detailed note on Al Architecture.	[8]
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