Tota	ıl No	o. of Questions : 8] SEAT No. :
P8	14	[5870] - 1135 [Total No. of Pages : 2
		T.E. (Computer Engineering) ARTIFICIAL INTELLIGENCE
		(2019 Pattern) (Semester - II) (310253)
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		½ Hours] [Max. Marks : 70 ions to the candidates:
	<i>1)</i>	Answer Q 1 or Q 2, Q 3 or Q 4, Q 5 or Q 6, Q 7 or Q 8.
	<i>2) 3)</i>	Neat diagrams must be drawn whenever necessary. Assume suitable data if necessary.
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Q1)	a)	Explain Alpha - Beta Tree search and cutoff procedure in deatil with example. [9]
	b)	What are the issues that need to be addressed for solving esp efficiently Explain the solutions to them. [9]
Q2)	a)	Explain in detail the concepts of back tracking and constraint propagation and solve the N-queen problem using these algorithms. [9]
	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, CROSS-ROADS= DANGER) [4]
Q 3)	a)	List the inference rules used in prepositional logic? Explain them in detail with suitable example. [9]
	b)	Explain syntax and semantics of First Order Logic in detail. OR [8]
Q 4)	a)	Detail the algorithm for deciding entailment in prepositional logic. [8]
	b)	Explain knowledge representation structure and compare them. [9]

[9]

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Q 5)	a)	Explain Forward and Backward chaining. What factors justify who reasoning is tobe done in forward or backward chaining.	ether [9]
	b)	What are the reasoning patterns in propositional logic? Explain the detail. OR	m 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 Si.	
Q8)	a)	Explain the terms for time and schedule from perspective of temp planning.	oral [9]
	b)	Write a detailed note on Al Architecture.	[8]
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