Total No. of Questions: 8]	90	SEAT No. :
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T.E. (Artificial Intelligence & Data Science) ARTIFICIAL INTELLIGENCE (2019 Pattern) (Semester - I) (310253)

(2019 Pattern) (Semester - I) (310253)				
73.	21/			
		[Max. Mark ons to the candidates:	ks: 70	
LILSLI	<i>1</i>)	Answer four questions Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q	2.8.	
	<i>2</i>)	Neat diagrams must be drawn wherever necessary.	,	
	3)	Assume suitable data, if necessary.		
<i>Q1</i>)	a)	Explain min Max and Alpha Beta pruning algorithm for adve	rsarial	
		search with example	[9]	
	b) \	Define and explain Constraints satisfaction problem.	[9]	
		OR OR		
<i>Q</i> 2)	a)	Explain with example graph coloring problem.	[9]	
	b)	How Al technique is used to solve tic-tac-toe problem.	[9]	
<i>Q3</i>)	a)	Explain Wumpus world environment giving its PEAS descript	ion.	
2 - /	/		[9]	
	b)	Explain different interence rules in FOL with suitable example.	[8]	
		OR		
04)	a)	Write an propositional logic for the statement,	[10]	
~	/	i) "All birds fly"	F - 3	
		ii) "Every man respect his parents"		
	1. \		[7]	
	b)	Differentiate between propositional logic and First order logic.	[7]	
Q 5)	a)	Explain Forward chaining algorithm with the help of example.	[9]	
	b)	Write and explain the steps of knowledge engineering process.	[9]	
		S.V	P.T.O	

		OR %	
Q6)	a)	Explain Backward chaining algorithm with the help of example.	[9]
	b)	Write a short note on	[9]
		i) Resolution and	
		ii) Unification	
Q 7)	a)	Write a short note on planning agent, state goal and action represent	ation [6]
	b)	Explain different components of planning system.	[6]
	c)	Explain the components of AI.	[5]
		OR SOL	
Q 8)	a)	What are the types of planning? Explain in detail.	[6]
	b)	Explain Classical Planning and its advantages with Example.	[6]
	c)	Write note On hierarchical task network planning.	[5]
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