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)

ARTIFICIALINTELLIGENCE				
	(2019 Pattern) (Semester-I) (310253)			
	[Max. Man	rks : 70		
	ions to the candidates:			
1)	Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.			
2)	Neat diagrams must be drawn whenever necessary			
3)	Assume Suitable data if necessary.			
Q1) a)	Explain Min Max and Alpha Beta pruning algorithm for adversarial	search		
	with example:	[9]		
b)	Define and explain Constraints satisfaction problem.	[9]		
,				
Q2) a)	Explain with example graph coloring problem.	[9]		
b)	How AI technique is used to solve tic-tac-toe problem.	[9]		
		0-		
() ()	Evaloin Wymnus world any francont siving its DEAS description	LOĮ.		
Q3) a)	Explain Wumpus world environment giving its PEAS description.			
b)	Explain different inference rules in FOL with suitable example.	[8]		
	OR OR)		
04) a)	Write an propositional logic for the statement,	[10]		
E •) ")		[20]		
	i) "All birds fly"			
	ii) "Every man respect his parents"			
b)	Differentiate between propositional logic and First order logic.	[7]		
05)		F 0.1		
Q 5) a)	Explain Forward chaining algorithm with the help of example.	[9]		
b)	Write and explain the steps of knowledge engineering process.	[9]		
	OR So.			

Q6) a)	Explain Backward chaining algorithm with the help of example.	
b)	Write a short note on	[9]
	i) Resolution and	
	ii) Unification	
Q7) a)	Write a short note on planning agent, state goal and action represen	tation. [6]
b)	Explain different components of planning system.	[6]
c)	Explain the components of AI OR	[5]
Q8) a)	What are the types of planning? Explain in detail.	[6]
b)	Explain Classical Planning and its advantages with Example.	[6]
c) N	Write note on hierarchical task network planning.	[5]
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