Total No. of Questions : 8]	SEAT No. :
P7553	[Total No. of Pages : 2
	[6180]:63
T.E. (Artificial I	ntelligence & Data Science)
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	ARTIFICIALINTELLIGENCE	
	(2019 Pattern) (Semester-I) (310253)	
Time : 21/	[Max. Mark	cs:70
Instructio	ons 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.	
	76.7	
<b>Q1</b> ) a)	Explain Min Max and Alpha Beta pruning algorithm for adversarial so	earch
	with example:	[9]
b)	Define and explain Constraints satisfaction problem.	[9]
,	OR	
<b>Q2</b> ) a)	Explain with example graph coloring problem.	[9]
b)	How AI technique is used to solve tic-tac-toe problem.	[9]
<b>Q3</b> ) a)	Explain Wumpus world environment giving its PEAS description.	, roj
~ .		LOI
b)	Explain different inference rules in FOL with suitable example.	[8]
<b>Q4</b> ) a)	OR Write an propositional logic for the statement,	[10]
	i) "All birds fly"	
1	ii) "Every man respect his parents"	
b)	Differentiate between propositional logic and First order logic.	[7]
Q	2 2 3 CO.	
Q5) a)	Explain Forward chaining algorithm with the help of example.	[9]
<b>b</b> )	Write and explain the steps of knowledge engineering process.	[9]
	OR OR	

<b>Q6</b> ) a)	Explain Backward chaining algorithm with the help of example.	[9]
b)	Write a short note on	[9]
	i) Resolution and	ノ
	ii) Unification	/
<b>Q7</b> ) a)	Write a short note on planning agent, state goal and action represe	
		[6]
b)	Explain different components of planning system.	[6]
c)	Explain the components of AI  OR	[5]
<b>Q8</b> ) 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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