Total No. of Questions : 8]	SEAT No.:
DA 1451	[Total No. of Pages : 2

[5926]-67

T.E. (Computer Engineering) ARTIFICIAL INTELLIGENCE

ARTIFICIAL INTELLIGENCE				
		(2019 Pattern) (Semester - II) (310253)		
Time : 2½ Hours] [Max. Man		ks : 70		
Insti	ructio	ons to the candidates:		
	<i>1)</i>	Attempt Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.		
	<i>2)</i>	Neat diagrams must be drawn wherever necessary.		
	3)	Assume suitable data, if necessary.		
Q1)	a)	Explain Min Max and Alpha Beta pruning algorithm for adversa search with example.	arial [9]	
	b)	Define and explain Constraints satisfaction problem.	[9]	
		OR		
Q 2)	a)	Explain with example graph coloring problem.	[9]	
	b)	How AI technique is used to solve tic-tac-toe problem.	[9]	
Q 3)	a)	Explain Wumpus world environment giving its PEAS description	n. [9]	
	b)	Explain different inference rules in FOL with suitable example.	[8]	
		OR		
Q4)	a)	Write an propositional logic for the statement,	[10]	
		i) "All birds fly"		
		ii) "Every man respect his parents"		
	b)	Differentiate between propositional logic and First order logic.	[7]	

<i>Q5</i>)	a)	Explain Forward chaining algorithm with the help of example.	[9]
	b)	Write and explain the steps of knowledge engineering process.	[9]
		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 act representation.	ion [6]
	b)	Explain different components of planning system.	[6]
	c)	Explain the components of AI.	[5]
		OR	
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]

