Total No. of Questions: 8]		of Questions : 8] SEAT No. :				
PA-1451		1 [Total No. of Page [5926]-67	es: 2			
T.E. (Computer Engineering)						
ARTHICIAL INTELLIGENCE						
(2019 Pattern) (Semester - II) (310253)						
(201) Tatterny (Semester - 11) (310233)						
Time	: 21/2	Hours] [Max. Marks	: 70			
Instructions to the candidates:						
	1)	Attempt Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.				
	<i>2</i>)	Near diagrams must be drawn wherever necessary.				
	3)	Assume suitable data, if necessary.				
01)	-)	Ellin Min Man and Alaba Data amain Alaba fan adama	1			
<i>Q1</i>)	a)	Explain Min Max and Alpha Beta pruning algorithm for adversa search with example.	ariai [9]			
	b)	Define and explain Constraints satisfaction problem.	[9]			
		OR				
<i>Q</i> 2)	a)	Explain with example graph coloring problem.	[9]			
Q2)	α)		[-]			
	b)	How AI technique is used to solve tic-tac-toe problem.	[9]			
		× × × × × × × × × × × × × × × × × × ×				
<i>Q3</i>)	a)	Explain Wumpus world environment giving its PEAS description	n			
Q_{J}	a)	Explain wampus world chritoninent giving its i LAS description	 [9]			
	1	Evaloin different informed males in EQL with exterior according				
	b)	Explain different inference rules in FOL with suitable example.	[8]			
		OR OR				
<i>Q</i> 4)	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]			
			-			
		P.7	T.O.			

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	
Q6)	a)	Explain Backward chaining algorithm with the help of example	[9]
	b)	Write a short note on ?	[9]
		i) Resolution and	
		ii) Unification	
Q7)	a)	Write a short note on planning agent, state goal and act	ion
21)	a)	representation.	[6]
	b)	Explain different components of planning system.	[6]
	c)	Explain the components of AI.	[5]
	\	OR OR	
<i>Q8</i>)	a)	What are the types of planning? Explain in detail.	[6]
20)	b)	Explain Classical Planning and its advantages with example.	[6]
		Write note on hierarchical took network planning	[5]
	c)	Write note on hierarchical task network planning.	. C.
		89.	
		Write note on hierarchical task network planning.	