SPPU-TE-COMP-CONTENT – KSKA Git

Total	No. o	of Questions : 8] SEAT No. :				
PA-	145		es : 2			
		[5926]-67				
T.E. (Computer Engineering)						
ARTHICIAE INTELLIGENCE						
(2019 Pattern) (Semester - II) (310253)						
Time	2:21/2	[Max. Marks	[Max. Marks : 70			
Instr	ructio	ns 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>)	New 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 adversa	arial			
~ /	6	search with example.	[9]			
	b)	Define and explain Constraints satisfaction problem.	[9]			
		OR O				
<i>Q</i> 2)	a)	Explain with example graph coloring problem.	[9]			
	b)	How AI technique is used to solve tic-tac-toe problem.	[9]			
		6.				
<i>Q3</i>)	a)	Explain Wumpus world environment giving its PEAS description				
			[9]			
	b)	Explain different inference rules in FOL with suitable example.	[8]			
		OR OF OF				
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]			

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Q 5)	a)	Explain Forward chaining algorithm with the help of example.	[9]
	b)	Write and explain the steps of knowledge engineering process.	[9]
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Q6)	a)	Explain Backward chaining algorithm with the help of example	[9]
	b)	Write a short hote on ?	[9]
		i) Resolution and	
		ii) Unification	
Q 7)	a)	Write a short note on planning agent, state goal and act	
		representation.	[6]
	b)	Explain different components of planning system.	[6]
	c) S	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]
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		Write note on hierarchical task network planning.	
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