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<b>R-15</b>
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**Code: 5G164**

III B.Tech. II Semester Supplementary Examinations January 2022

**Artificial Intelligence**

( Computer Science and Engineering )

Max. Marks: 70

Time: 3 Hours

Answer any five full questions by choosing one question from each unit ( 5x14 = 70 Marks )

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		Marks	CO	Blooms Level
<b>UNIT-I</b>				
1.	How to represent a problem as a state space search, explain with water-jug problem.	14M	CO1	L1
<b>OR</b>				
2.	a) Define Agent. Discuss about the different types of it.	7M	CO1	L1
	b) Discuss the various Problem characteristics in detail.	7M	CO1	L2
<b>UNIT-II</b>				
3.	Write and explain the A* algorithm.	14M	CO2	L2
<b>OR</b>				
4.	a) What is Iterative Deepening, explain.	7M	CO2	L1
	b) Explain any one Constraint Satisfaction Problem (CSP) with an example.	7M	CO2	L2
<b>UNIT-III</b>				
5.	Discuss about Universal, Existential and Nested quantifiers in First-Order Logic	14M	CO3	L2
<b>OR</b>				
6.	Write short notes on: a). Backward chaining	7M		
	b). Forward chaining.	7M	CO3	L2
<b>UNIT-IV</b>				
7.	a) Explain about Mental Events and Objects in knowledge engineering.	7M	CO4	L2
	b) How to do planning with state space search, explain.	7M	CO4	L1
<b>OR</b>				
8.	a) What is Ontological engineering in knowledge engineering, explain.	7M	CO4	L1
	b) Write short notes on Hierarchical planning.	7M	CO4	L2
<b>UNIT-V</b>				
9.	Write short notes on: a). Axioms of Probability.	7M		
	b). Fuzzy Logic.	7M	CO5	L1
<b>OR</b>				
10.	What are the uses of Bayes' rules in Uncertain knowledge and reasoning, discuss in detail.	14M	CO5	L1

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