Hall Ticket Number :						

R-15 Code: 5G164

III B.Tech. II Semester Supplementary Examinations December 2022

Artificial Intelligence

		(Computer Science and Engineering)	
Max	. Mc	arks: 70 Time: 3 Hou	Jrs
An	swe	r any five questions by choosing one question from each unit (5x14=70Marks) *********)
		UNIT-I	
1.	a)	Define artificial intelligence? Explain in brief about PEAS description	5M
	b)	Explain in detail about the problem characteristics	9M
		OR	
2.	a)	Explain A* algorithm in detail with an example	9M
	b)	Compare the performance of uninformed search strategies	5M
		UNIT-II	
3.	a)	Discuss forward chaining algorithm.	7M
	b)	Illustrate unification with an example.	7M
		OR	
4.	a)	How to show that any first order logic sentence can be put into implicative	
		normal form.	7M
	b)	How can resolution be used to show that a sentence is	
		(i) valid (ii) un-satisfiable.	7M
_		UNIT-III	4 4 5 4
5.		Explain in detail about actions, situations and events in ontological engineering	14M
•	-\	OR Discuss la pical agrapianta	71.4
6.	a)	Discuss logical omniscience.	7M
	b)	Write the partial order planning algorithm.	7M
7	۵)	UNIT-IV Explain	
7.	a)	i) Propositions ii)Atomic Events	7M
	b)	Discuss the method for constructing belief networks.	7M
		OR	
8.	a)	Give the axioms of Probability	7M
	b)	State the Bayes rule and its usage	7M
		UNIT-V	
9.	a)	Discuss inductive learning.	7M
	b)	Write the decision tree learning algorithm.	7M
		OR	
10.	a)	Describe feed forward multilayer neural networks giving details of computations	10M
	b)	Discuss about applications of artificial neural networks	4M
