Roll No.						
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Total No. of Questions: 9]

[Total No. of Pages : 3

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B.Tech. (CSE) 6th Semester (Supplementary) Examination, July-2021

(G Scheme)

ARTIFICIAL INTELLIGENCE

Paper-PCC-CSE-304-G

Time: Three Hours]

[Maximum Marks: 75

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

- Note: Question No. 1 is compulsory. Attempt five questions in total by selecting one question from each Unit.
- 1. (a) Differentiate between informed and uninformed search.
 - (b) Write a short note on Semantic Network.
 - (c) What do you mean by term Heuristics?

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- (d) Explain the term Non-monotonic reasoning.
- (e) Write a short note on genetic algorithms. $3\times 5=15$
- 2. (a) Define term Artificial Intelligence. What are applications of AI in the various fields? Explain its applications.
 - (b) Explain Hill Climbing strategy with example. What are the problems faced while applying this strategy? 7,8
- 3. (a) What do you mean by Game playing in AI?
 - (b) Explain Alpha-Beta pruning with example.

 What is the need of pruning a game tree? 7,8

Unit-II

- 4. (a) Differentiate between prepositional logic and predicate logic.
 - (b) What do you mean by Skolemization?

 Explain with the help of example. 8,7

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5.	Explain the various ways of knowledge representation in AI. Also discuss underlying issues.	5
	Unit-III	
6.	(a) Explain how uncertainity is managed in AI.	
	(b) Explain Dempster shafer theory with the help of example. 5,10	0
7.	(a) Differentiate partial-order plan with total-order plan.	
	(b) How do we represent states, goals and actions in planning? Explain with	
	example. 7,8	3
	Unit-IV	
8.	What is an Expert System ? Explain its architecture in detail. Also, write its applications	
	in the various domains.	,
9.	(a) Explain ANN with its architecture. How artificial Neural networks are similar to biological neural networks?	
	(b) Explain ANN applications in the various 8,7 fields.	7
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