No. of Printed Pages: 03 Roll No. .....

## H-30

## B. Tech. EXAMINATION, May 2017

(Eighth Semester)

(Electives) (Main & Re-appear)

EE, EEE

EE-446-B

## ARTIFICIAL INTELLIGENCE

Time: 3 Hours [Maximum Marks: 100

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

**Note**: Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

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P.T.O.

		Unit I		6.	(a)	What are Neural Networks ? Explain
1.	(a) State and explain breadth first search. 10					learning by neural networks in detail. 10
	(b)	What is alpha-beta pruning? Explain detail.			(b)	What is situational calculus? Explain planning by situational calculus in detail.  10
2.	(a)	Explain Hill climbing in detail.	10			Unit IV
	(b)	Explain Heuristic depth first search	in			
		detail.	10	7.	(a)	What is rule base ? Write algorithm for
		Unit II				designing rule base for a simple vehicle braking system. 10
3.	(a)	Explain Semantic Nets in detail.	10		(b)	Explain Knowledge acquisition concept in
	(b)	Explain rule based deduction system.	10			detail. 10
1.	(a)	Explain algorithm for assumption ba	sed	8.	Writ	te short notes on the following : $10 \times 2 = 20$
		reasoning in detail.	15		(a)	Genetic Algorithm
	(b)	State Baye's law of probability.	5		(b)	Expert Systems.
		Unit III				
5.	(a)	Explain learning by analogy.	10			
	(b)	Explain discovery as learning in detail	1.			
			10			

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