(08 Marks)

Eighth Semester B.E. Degree Examination, June/July 2019 Artificial Intelligence

Tim	e: 3	hrs. Max. Marks	: 80
Note: Answer any FIVE full questions, choosing ONE full question from each module.			
Module-1			
1	a.		Marks)
	b.		Marks)
		OR	
2	a.		Marks)
_	b.		Marks)
3	0	Explain Breadth First Search Algorithm and outline its merits and demerits. (08)	Marks)
3	a. b.		Marks)
		OR Finals in Simula Hill Climbing Algorithm with relevant details (08)	Marks)
4	a. b.	2. p	Marks)
	υ.	Explain Steepest 7 issent 11m Similary algorithm with the second	,
		Module-3	
5	a.	Delinie Empere System - Territoria	Marks) Marks)
	b.	Explain Expert System Architecture and steps to develop an Expert System. (08	Wai Ks)
		OR	
6	a.	Explain the operation of MYSIN as an Expert System in diagnosing bacterial infectio	
	b.	Explain the operation of Dendral as an Expert system in helping an organic chemist.	3 Marks)
	0.	(08	3 Marks)
		Module-4	
7	a.	Displant Italie Calou of City	8 Marks)
	b.	Explain Semantic Network Architectures with relevant details. (08)	8 Marks)
	7	OR	
8	a.	Explain Decision Tree Architectures with relevant details. (08	8 Marks)
	b.	Explain Neural Network Architectures with relevant details. (08)	8 Marks)
Module-5			
9	a.	Define Perceptron. Explain simple perceptron with neat diagram and relevant details.	
		(0)	8 Marks)
	b.	Explain Perceptron Learning Algorithm with relevant parameters. (0)	8 Marks)
OR			
10	a.	Explain Learning Automaton model with a case study of temperature control model.	
			8 Marks)

b. Explain Genetic Algorithm with flow chart.

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.