MADTOBA		CBC	S SCHEME
USN)=		

15MT832

(08 Marks)

Eighth Semester B.E. Degree Examination, July/August 2021 Artificial Intelligence

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions.

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1	a. b.	Define Artificial Intelligence. Explain the scope of Artificial Intelligence. Outline the early work done in the field of Artificial Intelligence.	(08 Marks)		
			(08 Marks)		
2	a.	What is an Intelligent agent? Explain in detail Intelligent agent with its characteristics.	eteristics and		
	b.		(08 Marks)		
	U.	Explain in detail Alan Turing machine and state the limitations of Turing test.	(08 Marks)		
3	a.	Explain Breath first search algorithm and outline its merits.	(08 Marks)		
	b.	Explain Depth first search algorithm and outline its advantages.			
		and outside its devantages.	(08 Marks)		
4	a.	Explain simple hill climbing algorithm with relevant details.	(00 M-1.)		
	b.	Explain steepest ascent hill climbing algorithm with relevant details.	(08 Marks)		
		The second and standing disjoint and the televant details.	(08 Marks)		
5	a.	Define expert system. Discuss the characteristics of expert system.	(00 3/ 1)		
	b.	Explain expert system architecture with relevant details.	(08 Marks)		
		The state of the s	(08 Marks)		
6	a.	Explain the operation of MYCIN as an expert system in diagnosing bacterial infe	ections		
			(08 Marks)		
	b.	Explain the operation of DENDRAL as an expert system in helping an organic c	hemist.		
			(08 Marks)		
7	a.	Explain semantic network architectures with relevant details.	(08 Marks)		
	b.	Explain black board system architectures with relevant details.	(08 Marks)		
		and the second of the second o	(00 Marks)		
8	a.	Explain decision tree architectures with relevant details.	(08 Marks)		
	b.	Explain neural network architectures with relevant details.	(08 Marks)		
			(00 Maiks)		
9	a.	Define Perceptron. Explain simple perceptron with neat diagram and relevant det	ails		
			(08 Marke)		
	b.	Explain learning Automation model with a case study of temperature control model	del.		
			(08 Marks)		
10	a.	Explain genetic algorithm with flow chart.	(00 Moults)		
	b.	What is the role of an intelligent editor? Explain intelligent editors with relevant	(08 Marks)		
		Barrier and a supram meeting out out of s with relevant	(00 MT II)		

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