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Roll No.

322831(22)

B. E. (Eighth Semester) Examination, April-May 2021

(New Scheme)

(CSE Engg. Branch)

ARTIFICIAL INTELLIGENCE and EXPERT SYSTEMS

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: Attempt all questions. Part (a) is compulsory.

Attempt any two parts from (b), (c) and (d) of each questions. Diagram is necessary whenever if required.

Unit-I Resemble you were profile.

1.	(a) Define Heuristic function.	2
	(b) Explain AO* algorithm with suitable example.	7
	(c) Explain Hill Climb algorithm with its limitations.	7

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	(d)	Give the list of application area of artificial intelligence.	7
		Unit-II	
2.	Ò.	What do you mean by WFF? What are the properties of a knowledge based	2
	(0)	system? Describe various knowledge representation techniques.	7
	(c)	How knowledge is represented using semantic Net?	7
	(d)	Give semantic representation for the following facts: (i) Ram is taller than Harry. (ii) Every Dog has bitter a politician.	7
		(iii) Football is a Game. It is played by Ball it is popular in Europe.	
		Unit-III	
3.	(a)	What do you mean by Fuzzy Logic?	2
	(b)	What is Baye's theorem? Give the limitation of Naive	
		Bayesian system.	7

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(c) Differentiate between supervised and unsupervised		
learning.	,	
(d) Write short notes on : (any two) (i) Bayesian Belief Network	ı	
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(ii) Dempster Shafer Theory		
(iii) Decision Tree		
Unit-IV		
(a) Derive a parse tree of the following sentence:	1	
"Mohan slept on the Bench".		
(b) Discuss the basic steps of Natural Langauge		
Processing (NLP).	,	
(c) Differentiate between forward and backward		
reasoning.	,	
(d) Discuss the partial order planning. Giving suitable		
example.		
4		
Unit-V		

5. (a) Write any five name of expert system.

(b) Di	raw the architecture of all expert system. Exp	lanı	
it.			-
	Louis IV		
(c) Ex	xplain the process of knowledge Aquisition.		-
(d) Ex	xplain rule based system with example.		
	(ii) Dempster Shuler Theory		
	Derve a jugaction of the following sentence		
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	Progressing (MLP)		
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	V-light		