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Mellagam m aniesty APR-MAY at

B. E. (Seventh Semester) Examination, 2020

(Old Scheme)

(EEE, Et & T & Mechatronics)

ARTIFICIAL INTELLIGENCE & EXPERT SYSTEM

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: Part (a) of each unit is compulsory. Remaining part (b), (c) and (d), attempt any two questions.

Unit-I

- 1. (a) List the application of AI.
- 2
- (b) Write short notes on:

	[2]		[3]	
	(i) Knowledge representation	4	Unit-III	
	(ii) Knowledge acquisition	3	3. (a) What is modus pones rule of inference making?	2
	(c) List the early works in AI.	7	(b) Explain semantic nets with example.	7
	(d) Explain knowledge manipulation along with its importance in AI field.	7	(c) Explain rule based system.	7
	Unit-II		(d) Explain reslection refutation technique with an example.	
2.	(a) What do blind search and heuristic search means?	2	(i) Ram is a Maharastrian.	
	(b) Explain A* algorithm.	7	(ii) All Maharastrian are Indian	
		1	Prove that Ram is Indian.	7
	(c) Solve the problem using constraint satisfaction technique:	30	Unit-IV	
10	SEND		4. (a) What is recurrent networks?	2
	+ MORE MONEY		(b) Explain truth maintenance system.	7
	Note:		(c) Explain Bayer network for uncertainity handling.	7
	(i) The letter will have value ranging from 0 to 9.		(d) Explain learning by induction.	7
	(ii) No two letters will have same value.	7	Unit-V	
	(iii) The carry can be 0 or 1.(d) Differentiate between Breadth first search and depth	-1	5. (a) What do production system means?	2
	first search.	7		

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b) List and explain components of planning system.	
c) Explain augumented transition network.	
d) Explain Expert System Architecture. Also explain about MYCIN.	
Prior and Representation	
V-dini)	