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(Time: 3 hours)

[Total Marks: 75]

Please check that you have got the correct question paper.

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N	$\mathbf{R} \cdot \mathbf{n}$	(I)	ΔΗ	anestions	are	compulsory
T.4.	D.,	(I)	Δ II	questions	arc	compulsory.

- (2) Make <u>suitable assumptions</u> wherever necessary and <u>state the assumptions</u> made.
- (3) Answers to the <u>same question</u> must be <u>written together</u>.
- (4) Numbers to the **right** indicate **marks**.
- (5) Draw <u>neat labeled diagrams</u> wherever <u>necessary</u>.
- (6) Use of **Non-programmable** calculators is **allowed**.

SECTION-I

a.	What are intelligent systems? Explain					
b.	Write a short note on AI. Mention its applications.	6				
1.						
a.	Explain how utility-based agent is different than goal-based agent? Compare the					
b.	Characteristics of utility-based and goal-based agent. Explain the structure of on intelligent system.					
2.						
a.	What is UNIFICATION? Explain working of unification with examples.	7				
b.	State and explain the A* algorithm in brief.	6				
2.						
a.	State steps require converting every sentence of first order logic to equivalent CNF sentence.	7				
b.	Write a note on Dempster-shafers belief networks theory.	6				
3.0	3)					
a. 6	Describe Quantifiers with their uses.	6				
b.	Write a short note on Thinking Humanly – a cognitive model approach.	6				
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3.	\$\bar{\partial}{					
a.	Write a note on multi-layered feed forward network.	6				
b.	Compare the characteristics between prior probability and conditional probability.	6				

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SECTION II

4.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	24				
a.	Describe the McCulloch and Pitts models of neuron.	7				
b.	Write a note on "Methods of steepest descend-LMS".					
··	OR	6				
4.						
	Trustain the least many arrows alreadthus	200				
a.	Explain the least mean square algorithm.	65				
b.	Explain error correction learning.	~6				
5.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	207				
	Trustain the amon agreeting march onice (2000)	_				
a.	Explain the error correction mechanisms.	6				
b.	Explain Fuzzy Logic with one example.	6				
5.						
a.	What are MLP networks? How are they different from RBF Network?	6				
b.	State and explain Boltzmann learning mechanism.	6				
6.						
	What is no acceptant and a specific	-				
a.	What is perceptron and mention perceptron convergence theorem.	0				
b.	Write a short note on membership functions in fuzzy logic.	6				
	SON SECOND SECON					
6.		6				
a.	Explain any 2 architectures of neural networks.	6				
h	What are the salient features of Roltzmaan learning rule? Explain					