

Reg	. r	No:		
	S	IDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PU'	FTUR	
		(AUTONOMOUS)		
• •	в.	I ech IV Year I Semester Regular Examinations November/Decembe	ər-202	2
		(Common to CSE & CSIT)		
Time	:31	hours M	ax. Ma	rks: 60
		(Answer all Five Units $5 \times 12 = 60$ Marks)		
		UNIT-I		
1	a	Illustrate the basic components of Artificial Intelligence and its	L3	6M
		applications.		
	b	Compare soft computing and hard computing.	L5	6M
		OR		
2	a	Distinguish between Supervised Learning and Unsupervised Learning.	L4	6M
	Ь	Describe the different activation functions in Neural Networks.	L2	6M
		UNIT-II		
3	a	Illustrate Learning Vector Quantization with neat sketch.	L2	6M
	Ь	Explain Hamming neural network with neat diagram.	L2	6M
		OR		
4	a	Discuss Bidirectional Associate Memory and its applications.	L2	6M
	b	Analyze the Characteristics, limitations and applications of Associative	L4	6M
		memory.		
		UNIT-III		
5	a	Explain with neat block diagram the various components of a Fuzzy	L2	6M
		Logic System.		
	b	Differentiate the fuzzy sets and classical sets.	L4	6M
		OR		
6	a	Demonstrate the membership functions in fuzzy logic.	L3	6M
	b	Define Fuzzification and explain membership value assignment in fuzzy	1.2	6M
		logic.		
		UNIT-IV		
7	a	Explain the basic terminologies in Genetic Algorithm and illustrate the	L3	6M
		working of GA.	-	
	b	Discuss about Simple genetic algorithm with neat sketch.	1.2	6M
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8	a	Explain the various cross over operations performed in GA.	12	6M
	D	inustrate the different bitwise operators in GA.	LJ	OIVI
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9	a	Discuss in detail about Genetic learning of Rule Base and Knowledge	L4	6M
	h	Dase.	16	C M
	U	OD	LO	OIVI
10	а	Infer the characteristics of Neuro-fuzzy Hybrid System	14	6M
10	b	Describe the working principle of Neuro-fuzzy system learn?	1.2	6M
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