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Enrolment No:		ROW		
UPES End Semester Examination, December 2023 Course: Soft Computing & Optimization Technique Program: B. Tech. (CSE) LL. B (Cyber Law) Course Code: CSEG4027 Instructions:			Semester: VII Time : 03 hrs. Max. Marks: 100	
mstru	SE	CTION A		
01		M=10Marks)		
Q1.	Define the role of soft computing.		2	CO1
Q2.	Define crossover in GA.		2	CO2
Q3.	Define Defuzzification.		2	CO1
Q4.	Define fuzzification.		2	CO1
Q5.	Define agent in PSO.		2	CO2
	SE	CTION B		
		A= 20 Marks)		-
Q6.	Explain merits and demerits soft computing and hard computing.		5	CO3
Q7.	Explain the term fuzziness along with different operations on fuzzy set.		5	CO2
Q8.	Discuss different types of membership function.		5	CO2
Q9.	Write short note on Swarm Intelligence problem.		5	CO1
		CTION-C		
		M=20 Marks)		
Q10.	Explain neural network along with its cha it differ from digital computer.	aracteristics. Also discuss how	10	CO3
Q11.	Justify the difference and similarities bet algorithms. Also explain their real time ag		10	CO4
		CTION-D M=50 Marks)		
Q12.	Justify how Fuzzy Inference system can aid us in mapping real time scenarios in digital world. For justification, please discuss working of one type of fuzzy inference system by mapping real world problem.		25	CO4
Q13.	Explain the difference between genetic algorithms and traditional methods. Also list the applications of genetic algorithms. Is it advisable to apply genetic algorithms for all kinds of optimization problems? Justify		25	CO4