BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (END SEMESTER EXAMINATION)

CLASS: BRANCH	M.TECH/PRE-PHD H: CS	SEMESTER : II/NA SESSION : SP/19
	SUBJECT: CS524 SOFT	COMPUTING
TIME:	3.00 HOURS	FULL MARKS: 50
1. The o 2. Atter 3. The o 4. Befor 5. Table	question paper contains 5 questions each of 10 mar mpt all questions. missing data, if any, may be assumed suitably. re attempting the question paper, be sure that you es/Data hand book/Graph paper etc. to be supplied	ks and total 50 marks. have got the correct question paper. to the candidates in the examination hall
Q.1(a) Q.1(b)	Compare fuzzy set theory and neural network. Write For two fuzzy relation investigate AxB≠BxA with help	their pros and cons. [5] o of an example. [5]
Q.2(a) Q.2(b)	Compare alpha cut and Power set with example. Explain fuzzy inferencing for multiple rules and mult	iple antecedents. [2+3]

- Q.3(a)Explain various paradigms of learning of neural network.[5]Q.3(b)Demonstrate working of backpropagation neural network on given network. Show weight updation for[3+2] one iteration only.



Q.4(a) Q.4(b)	Argue value encoding is most suitable for real life problem. Apply genetic algorithm to Max $f(x)=x^2$ .	[5] [5]
Q.5	Design PSO for TSP problem.	[10]

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