BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (MID SEMESTER EXAMINATIONMO/2024)

CLASS: BCA SEMESTER: VI BRANCH: BCA SESSION: MO/2024

SUBJECT: CA271 SOFTCOMPUTING AND APPLICATIONS

TIME: 02 Hours FULL MARKS: 25

INSTRUCTIONS:

- 1. The question paper contains 5 questions each of 5 marks and total 25 marks.
- 2. Attempt all questions.
- 3. The missing data, if any, may be assumed suitably.
- 4. Tables/Data handbook/Graph paper etc., if applicable, will be supplied to the candidates

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Q.1(a) Q.1(b)	· · · · · · · · · · · · · · · · · · ·	[2] [3]	CO 1 1	BL 3 3
Q.2(a)		[2]	1	2
Q.2(b)	fuzzy sets on U={a, b, c, d} then find i) A' U B ii)) $A' \cap B'$ Describe different type of fuzzy membership functions.	[3]	1	2
Q.3(a) Q.3(b)	Find the max-min composition for the following fuzzy relations: Y1 Y2 Z1 Z2 Z3	[2] [3]	2 2	4 4
	$R = \frac{X1}{X2} \begin{bmatrix} 0.7 & 0.2 \\ 0.3 & 0.6 \end{bmatrix} $ $S = \frac{Y1}{Y2} \begin{bmatrix} 0.6 & 0.7 & 0.3 \\ 0.4 & 0.7 & 0.5 \end{bmatrix}$			
Q.4(a) Q.4(b)	, ,	[2] [3]	2 2	3
Q.5(a) Q.5(b)		[2] [3]	1 1	4 4

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