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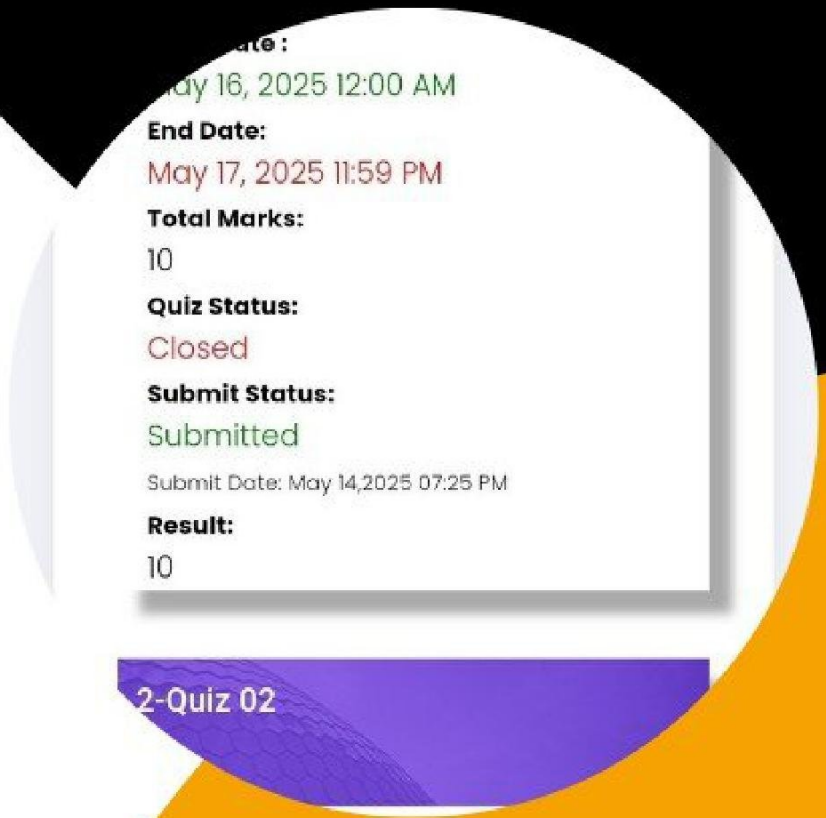

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MTH645 - Fuzzy Logic and Applications (Quiz No.3)

Question # 1 of 10 (Start time: 03:18:40 PM, 20 June 2025)

In t-norm $x\Delta y = xy$, the zero divisors a and b satisfy _____.

Select the correct option

- ○ $a\Delta b=1$
- ○ $a\Delta b=a$
- ◉ $a\Delta b=0$
- ○ $a\Delta b=b$

Question # 2 of 10 (Start time: 03:20:19 PM, 20 June 2025)

Which of the following is an example of a fuzzy relation?

Select the correct option

- ○ A binary tree
- ◉ A matrix representing the degrees of similarity between elements of two sets
- ○ A crisp set of numbers
- ○ A linear equation

MTH645 - Fuzzy Logic and Applications (Quiz No.3)

Question # 3 of 10 (Start time: 03:20:59 PM, 20 June 2025)

In fuzzy implication 1 implies 0 is equal to _____.

Select the correct option

- ○ 0.1
- ○ 0.5
- ◉ 0

- ○ 1

Question # 4 of 10 (Start time: 03:21:36 PM, 20 June 2025)

A fuzzy equivalence relation must be:

Select the correct option

- ○ None of the above
- ○ Reflexive, antisymmetric, and transitive
- ◉ Reflexive, symmetric, and transitive
- ○ Symmetric, antisymmetric, and transitive

BC210419686: ABDUL REHAN

Time Left sec(s)

MTH645 - Fuzzy Logic and Applications (Quiz No.3)

Quiz Start Time: 03:18 PM, 20 June 2025

Question # 5 of 10 (Start time: 03:22:06 PM, 20 June 2025)

Total Marks:

In the context of fuzzy relations, the composition of relations is often used. Which of the following represents the composition of two fuzzy relations R and S?

Select the correct option

Reload Math Equations

- $R \setminus S$
- $R \cap S$
- $R \circ S$
- $R \cup S$

Question # 6 of 10 (Start time: 03:22:31 PM, 20 June 2025)

If $x\Delta a = x\Delta b$ and $x=0$ this implies that _____.

Select the correct option

- b=1
- a.a=a
- a=b
- a=1

MTH645 - Fuzzy Logic and Applications (Quiz No.3)

Question # 7 of 10 (Start time: 03:23:08 PM, 20 June 2025)

In fuzzy implication 0 implies 1 is equal to _____

Select the correct option

- ○ 0.1
- ○ 0.5
- ○ 0
- ◉ 1

BC210419686: ABDUL REHAN

Time Left 9(sec(

MTH645 - Fuzzy Logic and Applications (Quiz No.3)

Quiz Start Time: 03:18 PM, 20 June 2(

Total Mark

Question # 8 of 10 (Start time: 03:23:35 PM, 20 June 2025)

The composition RoS is of R and S with respect to T-norm, multiplication is the fuzzy relation having membership function _____.

Select the correct option

Reload Math Equations

- max{R, S}
- R.S
- R
- R/S

Click to Save Answer & Move to Next Question

MTH645 - Fuzzy Logic and Applications (Quiz No.3)

Quiz Start Time: 03:18 PM, 20 June 2025

Question # 8 of 10 (Start time: 03:23:35 PM, 20 June 2025)

Total Marks: 1

The composition RoS is of R and S with respect to T-norm, multiplication is the fuzzy relation having membership function

_____.

Select the correct option

Reload Math Equations

- max{R, S}
- R.S
- R
- R/S

Click to Save Answer & Move to Next Question

Question # 9 of 10 (Start time: 03:24:14 PM, 20 June 2025)

In fuzzy implication 1 implies 1 is equal to _____

Select the correct option

- (●) 1
- ( ) 0.1
- ( ) 0
- ( ) 0.5

MTH645 - Fuzzy Logic and Applications (Quiz No.3)

Question # 10 of 10 (Start time: 03:24:49 PM, 20 June 2025)

A fuzzy binary relation R is reflexive if _____.

Select the correct option

○	$R(x,y)=R(y,x)$
○	$R(x,y)=R(y,z)$
●	$R(x,x)=1$
○	$R(x,y)=0$

Time Left

MTH645 - Fuzzy Logic and Applications (Quiz No.3)

Quiz Start Time: 07:18 PM, 20 Ju

Question # 1 of 10 (Start time: 07:18:12 PM, 20 June 2025)

Tota

The max-min composition of two fuzzy relations R and S involves which operations?

Select the correct option

Reload Math Equ

- Addition and subtraction
- Multiplication and division
- Union and intersection
- Maximum and minimum

MTH645 - Fuzzy Logic and Applications (Quiz No.3)

Quiz Start Time: 07:18 PM, 20 June 2025

Question # 2 of 10 (Start time: 07:18:45 PM, 20 June 2025) **Total Marks: 1**

Which of the following operations can be performed on fuzzy relations?

Select the correct option

Reload Math Equations

- ○ Intersection
- ○ Complement
- ○ Union
- ◉ All of the above

Question # 2 of 10 (Start time: 07:18:45 PM, 20 June 2025)

Which of the following operations can be performed on fuzzy relations?

select the correct option

Reload Ma

- ○ Intersection
- ○ Complement
- ○ Union
- ◉ All of the above

Click to Save Answer & Move to Ne

MTH645 - Fuzzy Logic and Applications (Quiz No.3)

Quiz Start Time: 07:18 PM, 20 Jun

Question # 3 of 10 (Start time: 07:19:15 PM, 20 June 2025)

Total

Which of the following is an example of a fuzzy relation?

Select the correct option

Reload Math Equ

- A linear equation
- A crisp set of numbers
- A binary tree
- A matrix representing the degrees of similarity between elements of two sets

Question # 4 of 10 (Start time: 07:19:39 PM, *20 June 2025*)

A fuzzy binary relation R is reflexive if _____.

Select the correct option

- R(0.5,0.5)=0.1
- R(0.5,0.5)=1
- R(0.5,0.5)=0.5
- R(0.5,0.5)=0

Time Left sec(s)

MTH645 - Fuzzy Logic and Applications (Quiz No.3)

Quiz Start Time: 07:18 PM, 20 June 2025

Question # 5 of 10 (Start time: 07:20:56 PM, 20 June 2025)

Total Marks: 1

The composition RoS is of R and S with respect to T-norm, multiplication is the fuzzy relation having membership function _____.

Select the correct option

Reload Math Equations

- R
- R/S
- max{R, S}
- R.S

Question # 6 of 10 (Start time: 07:21:32 PM, 20 June 2025)

In fuzzy implication 0 implies 1 is equal to _____.

Select the correct option

- 0
- 1
- 0.5
- 0.1

Click to Save Answer

MTH645 - Fuzzy Logic and Applications (Quiz No.3)

sec(s)

Quiz Start Time: 07:18 PM, 20 June 2025

Question # 7 of 10 (Start time: 07:21:45 PM, 20 June 2025)

Total Marks: 1

A fuzzy equivalence relation must be:

Select the correct option

Reload Math Equations

- Reflexive, antisymmetric, and transitive
- Symmetric, antisymmetric, and transitive
- None of the above
- Reflexive, symmetric, and transitive

Click to Save Answer & Move to Next Question

MTH645 - Fuzzy Logic and Applications (Quiz No.3)

Quiz Start Time: 07:18 PM, 20 June 2025

Question # 8 of 10 (Start time: 07:21:59 PM, 20 June 2025) **Total Marks: 1**

In fuzzy implication 0 implies 0 is equal to _____.

Select the correct option

Reload Math Equations

- 0
- 0.5
- 1
- 0.1

BC230418284: JAWERIA KALSOOM

Time Left 81 sec(s)

MTH645 - Fuzzy Logic and Applications (Quiz No.3)

Quiz Start Time: 07:18 PM, 20 June 2025

Question # 9 of 10 (Start time: 07:22:09 PM, 20 June 2025)

Total Marks: 1

$a \in (0,1)$ is called zero divisor of t-norm Δ if $\exists, b \in (0,1)$ such that _____ .

Select the correct option

Reload Math Equations

- $a \Delta b = a$
- $a \Delta b = 0$
- $a \Delta b = b$
- $a \Delta b = 1$

MTH645 - Fuzzy Logic and Applications (Quiz No.3)

Quiz Start Time: 07:18 PM, 20 June 2025

Question # 10 of 10 (Start time: 07:22:23 PM, 20 June 2025)

Total Marks:

In the context of fuzzy relations, the composition of relations is often used. Which of the following represents the composition of two fuzzy relations R and S?

Select the correct option

Reload Math Equations

- $R \cap S$
- $R \circ S$
- $R \setminus S$
- $R \cup S$

MTH645 - Fuzzy Logic and Applications (Quiz No.3)

Quiz Start Time: 07:18 PM, 20 June 2025

Question # 10 of 10 (Start time: 07:22:23 PM, 20 June 2025)

Total Marks: 1

In the context of fuzzy relations, the composition of relations is often used. Which of the following represents the composition of two fuzzy relations R and S?

Select the correct option

Reload Math Equations

- $R \cap S$
- $R \circ S$
- $R \setminus S$
- $R \cup S$

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