MTH202:Quiz No.1

Question # 6 of 10 (Start time: 10:41:49 PM, 15 June 2022)

For (2x-3, 4y+2)=(1,10), what will be the value of x and y?

$2x-3=1$

Select the correct option

●	(2 , 2) $4y+2=10$
○	(1 , 2)
○	(3 , 4) QEO
○	None of these 03432432226

Question # 3 of 10 (Start time: 09:28:59 PM, 15 June 2022) Total Marks

If R is transitive then the inverse relation will be transitive.

Select the correct option

o	false
o	true

MTH202 Quiz No 1

Quiz Start Time: 08:33 PM, 14 June 2022

Question # 9 of 10 (Start time: 08:46:28 PM, 14 June 2022)

Total Marks:

Operation of subtraction is a binary operation on the set of .....

Select the correct option

- Integers
- Natural numbers
- Whole numbers
- Positive integers

Click to Save Answer & Move to Next Question

Question # 2 of 10 (Start time: 09:04:32 PM, 15 June 2022)

Total Marks: 1

Which relations below are not functions?

Select the correct option

- {(3,90),(4,54),(6,71),(8,90)}
- {(-1,2),(-4,51),(1,2),(8,-51)}
- {(3,1),(4,54),(6,71),(9,91)}
- {(13,14),(13,5),(16,7),(18,13)}

MTH202:Quiz No.1

Question # 8 of 10 (Start time: 08:07:48 PM, 15 June 2022)

If A = {1 , 2 , 3} is a set and R = {(2 , 3) , (2 , 2) , (3 , 4)} is a relation on A, then R is

Select the correct option

○	Reflexive
○	Symmetric
○	Transitive
✗	None of these

Q E D

MTH202:Quiz No.1 Quiz Start Time: 04:52 PM,

Question # 1 of 10 (Start time: 04:52:06 PM, 15 June 2022)

"-" is a binary operation on the set of integers Z.

Select the correct option

- True
- False

Question # 10 of 10 (Start time: 05:07:01 PM, 15 June 2022) Total Mark

Which of the following is not a binary operation on the set of Integers?

Select the correct option

- Addition
- Subtraction
- Division
- Multiplication

Question # 9 of 10 (Start time: 08:58:36 PM, 15 June 2022) Total Marks:

Which relations below are functions?
R1 ={(3,4),(4,5),(6,7),(8,9)}
R2 ={(3,4),(4,5),(6,7),(3,9)}
R3 ={(-3,4),(4,-5),(0,0),(8,9)}
R4 ={(8,11),(24,5),(6,17),(8,10)}

Select the correct option

- R1 and R2 are functions
- R1 and R3 are functions
- R2 and R4 are functions
- R3 and R2 are functions

Question # 6 of 10 (Start time: 08:38:24 PM, 15 June 2022) Total Marks: 1

Let A = {0, 1, 2} and R = {(0,2), (1,1), (2,0)} be a relation on A. Then which of the following ordered pairs are needed to make it transitive?

Select the correct option

- (0,0) and (0,2)
- (0,0) and (2,2)
- (2,0) and (2,2)
- (2,0) and (0,2)

In the representation of an irreflexive relation using a matrix, all its diagonal entries will be .....

Select the correct option

O	1
O	2
O	-1
O	0

202:Quiz No.1

stion # 8 of 10 (Start time: 10:19:59 PM, 15 June 2022)

a relation R is reflexive, anti symmetric and transitive then which of the following is not true for the inverse relation

ect the correct option

- inverse relation will be transitive
- inverse relation will be reflexive
- inverse relation will be anti symmetric
- inverse relation will be irreflexive

A E O

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If A={1 , 2 , 3} is a set and R = {(1 , 2) , (2 , 2) , (2 , 1)} is a relation on A, R is

Select the correct option

●	Symmetric
○	None of these
○	Reflexive
○	Transitive

Question # 10 of 10 (Start time: 09:23:12 PM, 15 June 2022) Total Marks: 1

Let A be a non-empty set and P(A) the power set of A.Define the "subset" relation, $\subseteq$, as follows: for all X,Y $\in$ P(A), $X \subseteq Y \Leftrightarrow \forall x$, iff $x \in X$ then $x \in Y$.Then $\subseteq$ is _____.

Select the correct option

- ○ $\subseteq$ is not a partial order relation.
- ○ $\subseteq$ is a partial order relation.

Clear Your Answer | Mark for Next Question

Question # 5 of 10 (Start time: 05:00:29 PM, 15 June 2022)

Let A={1,2,3} and B = {2,4}then number of binary relations from A are _____ .

Select the correct option

O	6
O	16
O	64
O	9

$3 \times 2 = 6$

$2^6 = 64$

Question # 7 of 10 (Start time: 08:06:33 PM, 15 June 2022) Total Marks: 1

If a relation R={(1,1)(2,1)(1,2)(2,2)} is given then which of the following is not true about this relation.

Select the correct option

- R is Irreflexive.
- R is Symmetric.
- R is Reflexive.
- R is Transitive

Click to Save Answer & Move to Next Question

Question # 4 of 10 (Start time: 08:15:55 PM, 15 June 2022)

Total Marks:

Composite Relation symbolically written as _____.

Select the correct option

O	SoR = {(a,c)|a ∈A, c ∈C,∃ b ∈B, (a,b) ∈R and (b,c) ∈S}
O	SoR = {(a,c)|a ∈A, c ∈C,∃ b∉ B, (a,b) ∈R and (b,c) ∈S}
O	None of the above
O	SoR = {(a,c)|a ∈A, c ∈C,∃ b ∈B, (a,b) ∈R and (b,c) ∉ S}

Click to Save Answer & Move to Next Question

15 June, 15:20

Question # 7 of 10 (Start time: [illegible])

Total Marks: 1

If $x \equiv 17 \pmod 5$ Which of the following integers are valid solution for x ?

Select the correct option

- 12
- -44
- 4
- 8

Click to Save Answer & Move to Next Question

Question # 4 of 10 (Start time: 03:51:42 PM, 14 June 2022)

Total Marks: 1

Let R be a relation on a set A. If R is symmetric then its compliment is _____ .

Select the correct option

- Antisymmetric
- Symmetric
- Reflexive
- Irreflexive

BC210412747: ANEETA

MTH202:Quiz No.1 Quiz

Question # 4 of 10 (Start time: 08:36:46 PM, 15 June 2022)

Given a Set A=(a,b) and B={1,2,3}, then number of functions from A to B is .....

Select the correct option

- [x] 9
- [ ] 6
- [ ] 5
- [ ] 8

Click to Save A

$2^3 = 9$

Select the correct option

○	Range
	Domain
○	Relation
○	None of these.

Question # 4 of 10 (Start time: 09:07:02 PM, 15 June 2022)

Total Marks: 1

Let A = {4,5,6} then The relation R={(4,5),(5,4),(6,5),(5,6)} is _____.

Select the correct option

- R is Transitive
- R is Reflexive
- R is Anti symmetric
- R is Symmetric

b

Q E D

Question # 1 of 10 (Start time: 09:02:58 PM, 15 June 2022) Total Marks: 1

Composite Relation symbolically written as _____.

Select the correct option

- SoR = {(a,c)|a ∈A, c ∈C,∃ b ∈B, (a,b) ∈R and (b,c) ∉ S}
- SoR = {(a,c)|a ∈A, c ∈C,∃ b ∈B, (a,b) ∈R and (b,c) ∈S}
- SoR = {(a,c)|a ∈A, c ∈C,∃ b∉ B, (a,b) ∈R and (b,c) ∈S}
- None of the above

Question # 2 of 10 (Start time: 08:02:49 PM, 15 June 2022) Total Marks:

In the directed graph of an antisymmetric relation there is .....pair of arrows between two distinct elements of the set.

Select the correct option

- o two
- o infinite
- o no
- o one

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Question # 7 of 10 (Start time: 09:28:32 PM, 15 June 2022)

Let R be a relation on a set A. R is transitive if and only if for all a,b,c∈A then:

Select the correct option

○	(a, b)∈R then (b, a) ∉R
○	(a, b) ∈R and (b, c) ∈R then (a, c) ∈R (a, b)∈R then (b, a) ∈R
○	(a, b) ∈R and (b, c) ∈R but (a, c) ∉R
✓	(a, b) ∈R and (b, c) ∈R then (a, c) ∈R

Question # 5 of 10 (Start time: 08:37:30 PM, 15 June 2022)

Total Marks:

Let X = {2,4,5} and Y={1,2,4 }and R be a relation from X to Y defined by
R = {(2,4), (4,1), (a,2)}. For what value of 'a ' the relation R is a function ?

Select the correct option

O	4
O	2
	5
O	1

Click to Save Answer & Move to Next Question

Question # 9 of 10 (Start time: 09:36:14 PM, 15 June 2022)

The function defined from Z to Z as $f(x) = \frac{1}{(x+2)(x-2)}$ is not well defined because.....

Select the correct option

○	Function gives imaginary values for x< 0
○	Function is defined at x=2 but not defined at x=-2
	Function is not defined at x=-2 and x=2
○	Each input has two outputs.

Let A = {2, 3, 4} and B = {2,6,8}and let R be the "divides" relation from to B
i.e. for all (a,b) belong to (Cartesian product of A and B),a R b iff a | b (a divides b).Then

lect the correct option

- R = {(2,2), (2,6), (2,8), (3,6), (4,8),(6,8)}
- R = {(2,6), (3,6), (4,8)}
- R = {(3,6), (3,8)}
- R = {(2,2), (2,6), (2,8), (3,6), (4,8)}

Click to Save Answer & Move to Next Question

Question # 8 of 10 (Start time: 05:42:18 PM, 15 June 2022) To

Let A= {1,2,3,4,5} and B={4,9,16,17,25}.Then the relation R= {(2,4),(3,9),(4,16),(3,17)}Then inverse of R is_____.

Select the correct option

○	{(4,2),(9,3),(4,16),(3,17)}
●	{(4,2),(9,3),(16,4),(17,3)}
○	None of the above
○	{(2,4),(3,9),(16,4),(17,3)}

15 June, 15:18

Question # 6 of 10 (Start time: 03:18:42 PM, 15 June 2022) Total Marks:

Which relations below are not functions?

Select the correct option

- {(-1,2),(-4,51),(1,2),(8,-51)}
- {(13,14),(13,5),(16,7),(18,13)}
- {(3,90),(4,54),(6,71),(8,90)}
- {(3,1),(4,54),(6,71),(9,91)}

BC210414783: MADEEHA SHERAZ

Time Left 87 sec(s)

MTH202:Quiz No 1

Quiz Start Time: 09:02 PM, 15 June 2022

Question # 3 of 10 (Start time: 09:05:55 PM, 15 June 2022) **Total Marks: 1**

Range of function

$$f(x) = |x|$$

will be

Select the correct option

Reload Math Equations

- Set of real numbers
- Set of positive real numbers
- Set of negative real numbers
- Set of whole numbers

Quiz Save Answer & Move to Next Question

Question # 9 of 10 (Start time: 08:42:03 PM, 15 June 2022)

Why the function $f : Z \to R$ defined by $f(x) = \frac{1}{x^2-25}$ is not well defined?

Select the correct option

○	Because f is not defined for $x < 0$.
○	Because f is not defined for $x > 0$.
○	Because f gives imaginary values for all integers,
✓	*Because f Is not defined for 5 and -5.*

Question # 7 of 10 (Start time: 08:56:39 PM, 15 June 2022)
Total Marks: 1

Let f be a function from X = {2,4,5} to
Y = {1,2,4,6} defined as:f = {(2,6), (4,2), (5,1)}
Then range of f is _____ .

Select the correct option

- 2,4,5
- 1,2,6
- {1,2,6}
- {2,4,5}

Click to Save Answer & Move to Next Question

Question # 6 of 10 (Start time: 05:02:02 PM, 15 June 2022) Total Ma

If A=(1,2,3) & B=(4,5,6) and R={(1,4)(2,5)(3,6)(3,4)} The complementar relation is .....

Select the correct option

- A × B (Union) R
- A × B (difference or -) R
- A × B (intersection) R
- A × B

Question # 10 of 10 (Start time: 08:43:34 PM, 15 June 2022) Total Marks: 1

Which of the following logical connective is not a binary operation?

Select the correct option

- Implication
- Conjunction
- Negation
- Disjunction

Question # 7 of 10 (Start time: 08:18:40 PM, 15 June 2022)

If A={1 , 2 , 3} is a set and R = {(1 , 2) , (2 , 2) , (2 , 1)} is a relation on A, R is

Select the correct option

○	None of these
◉	Symmetric
○	Reflexive
○	Transitive

Question # 9 of 10 (Start time: 09:12:12 PM, 15 June 2022)

Total Marks: 1

In the representation of an irreflexive relation using a matrix, all its diagonal entries will be .....

Select the correct option

- 1
- 2
- 0
- -1

MTH202:Quiz No.1 Quiz Start Time: 08:01 PM, 15 Jur

Question # 5 of 10 (Start time: 08:04:42 PM, 15 June 2022) Total M

Let A = {1,2,3} and B = {0,1,2} and C = {a,b}
R = {(1,0),(1,2),(3,1),(3,2)}
S = {(0,b),(1,a),(2,b)}

Composite of R and S = _____ .

Select the correct option

- {(1,b),(3,a),(3,b)}
- {(1,a),(2,a),(3,a)}
- {(1,a),(1,b),(2,a),(3,b)}
- {(1,b),(1,a),(3,a),(3,b)}

Click to Save Answer & Move to Next Question

Question # 2 of 10 (Start time: 05:35:47 PM, 15 June 2022) Total Marks:

For the relation below to be a function, x cannot be what values?
{(12,14),(13,5),(-2,7),(x,13) }

Select the correct option

- x cannot be 12, 13, or 2.
- x cannot be 12, 13, or -2.
- x cannot be 14, 7, or 13.
- x cannot be 14, 5, or 7.

Q E O

Click to Save Answer & Move to Next Question

Question # 9 of 10 (Start time: 09:45:55 PM, 15 June 2022)

If A = {1 , 2 , 3} is a set and R = {(2 , 3) , (2 , 2) , (3 , 4)} is a relation on A, then R is

Select the correct option

○	Reflexive
○	Transitive
	None of these
○	Symmetric

Question # 4 of 10 (Start time: 08:03:48 PM, 15 June 2022) Total Marks: 1

If A=(1,2,3) & B=(4,5,6) and R={(1,4)(2,5)(3,6)(3,4)} The complementary relation is .....

Select the correct option

- A × B (intersection) R
- A × B (Union) R
- A × B
- A × B (difference or -) R

Click to Save Answer & Move to Next Question

15 June, 15:23

Question # 9 of 10 (Start time: 03:23:07 PM, 15 June 2022) Total Marks:

For any set A, the Cartesian product of A and A is known as _____ .

Select the correct option

- Empty relation
- Universal relation

Click to Save Answer & Move to Next Question

Question # 1 of 10 (Start time: 08:31:55 PM, 15 June 2022) Total Marks: 1

Let R = {(1, 2), (3, 4), (5, 6), (7, 8)}. Range of the inverse of the relation is _____.

Select the correct option

O	{2, 4, 6, 8}
O	{1, 2, 3, 4}
✓ O	{1, 3, 5, 7}
O	{5, 6, 7, 8}

Question # 5 of 10 (Start time: 09:18:00 PM, 15 June 2022) Total Marks: 1

Let A = {1,2,3} and R be the relation defined on A such that R ={(1,1), (1,2), (2,3), (3,1)}, then R is _____ .

Select the correct option

- Antisymmetric
- Symmetric

Question # 8 of 10 (Start time: 09:11:13 PM, 15 June 2022)

Total Marks: 1

Let A= {1,2,3,4,5} and B={4,9,16,17,25}.Then the relation R= {(2,4),(3,9),(4,16),(3,17)}Then inverse of R is_____.

Select the correct option

- {(4,2),(9,3),(16,4),(17,3)}
- {(2,4),(3,9),(16,4),(17,3)}
- {(4,2),(9,3),(4,16),(3,17)}
- None of the above

BC210428188: MUHAMMAD NAWAZ

Time Left

Quiz Start Time: 09:13 PM, 15 June 2022

MTH202:Quiz No.1

Total Marks: 1

Question # 3 of 10 (Start time: 09:15:19 PM, 15 June 2022)

If a relation R={(1,1)(2,1)(1,2)(2,2)} is given then which of the following is not true about this relation.

Select the correct option

- R is Symmetric.
- R is Irreflexive.
- R is Transitive
- R is Reflexive.

Click to Save Answer & Move to Next Question

b

may be

Question # 6 of 10 (Start time: 08:55:29 PM, 15 June 2022) Total Marks: 1

Let A = {p, q, r, s} and define a relation R on A by R = {(p, p), (p, r), (q, r), (q, s), (r, s)} Then which one of the following is the correct statement about R :

Select the correct option

- R is transitive
- R is reflexive
- R is not reflexive
- R is symmetry

Question # 8 of 10 (Start time: 09:30:38 PM, 15 June 2022)

The properties of being symmetric and being anti-symmetric are _____.

Select the correct option

	Not negative of each other
○	Negative of each other

BC200403342: SIDRA JAVED

Time Left 90 sec(s)

MTH202:Quiz No.1

Quiz Start Time: 08:13 PM, 15 June 2022

Question # 8 of 10 (Start time: 08:19:32 PM, 15 June 2022)

Total Marks: 1

Let A = {4,5,6} then The relation R={(4,5),(5,4),(6,5),(5,6)} is _____.

Select the correct option

- R is Transitive
- R is Symmetric
- R is Anti symmetric
- R is Reflexive

Click to Save Answer & Move to Next Question

MTH202 Quiz No.1

Quiz Start Time: 08:01 PM, 15 June 202

Question # 1 of 10 (Start time: 08:02:00 PM, 15 June 2022)

Total Marks:

For the following relation to be a function, x can not be what values?
R = {(2,4), (x,1), (4,2), (5,6)}

Select the correct option

- x cannot be 4,1 or 6
- x cannot be 2,4 or 5
- x cannot be 2,4 or 6
- x cannot be 1,2 or 6

Click to Save Answer & Move to Next Question

QEO

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MTH202 Quiz No 1

Time Left 88 sec(s)

Quiz Start Time: 09:02 PM, 15 June 2022

Question # 5 of 10 (Start time: 09:07:38 PM, 15 June 2022)

Total Marks:

Let A = {1,2,3,...,50}and B = {2,4,6,8,10}.
Then the Cartesian product of A and B has _____elements.

Select the correct option

- 5
- 250
- 50
- 100

50 x 5

= 250

Which of the following is not a type of a Relation?

elect the correct option

- Symmetric
- Permutation
- Transitive
- Reflexive

Question # 9 of 10 (Start time: 08:09:08 PM, 15 June 2022) Total Marks: 1

25 ≡ 1(mod 3) means that 3 divides .....

Select the correct option

○	25+1
○	25/1
○	25*1
●	25-1

Click to Save / Answer & Move to Next Question

Question # 2 of 10 (Start time: 03:14:37 PM, 15 June 2022) Total Marks: 1

Domain of the relation {(0,1),(3,22),(90,34)} is _____ .

Select the correct option

- {1,22,34}
- {0,1,3}
- {0,1,3,22,90,34}
- {0,3,90}

Click to Save Answer & Move to Next Question

Question # 4 of 10 (Start time: 09:16:57 PM, 15 June 2022)

Total Marks: 1

A = { 1, 2} B = { 3, 4}.R = { (1, 3) (2, 4) }.Then the complement of R is _____.

Select the correct option

- { (1, 4) (3, 2) }
- None of the above
- { (4, 1) (2, 3) }
- { (1, 4) (2, 3) }

Question # 10 of 10 (Start time: 06:15:44 PM, 15 June 2022) Total Marks: 1

Define a relation R = {(1,1), (2,2), (3,3), (1,3), (3,2)} then relation is_____.

Select the correct option

- R is not reflexive and transitive
- R is reflexive and transitive
- R is reflexive and not transitive
- R is not reflexive and not transitive

MTH202 Quiz No.1

Quiz Start

Question # 2 of 10 (Start time: 10:30:11 PM, 15 June 2022)

Suppose A has 3 elements and B has 4 elements, then the number of the binary relations from A to B that are functions is .....

Select the correct option

- $2^1/2^6$
- $2^6/2^{12}$
- $2^6/2^4$
- $2^6/2^8$

Add a caption...

MTH202:Quiz No.1

Question # 1 of 10 (Start time: 06:05:39 PM, 15 June 2022)

The range of a function is always .....the co-domain of f.

Select the correct option

- ○ a superset of
- ○ equal to
- ● a subset of
- ○ not equal to

Q E D

BC210209119: HAFIZ MUHAMMAD SHAHID

Time Left

MTH202 Quiz No 1

Quiz Start Time: 10:04 PM, 15 June 2022

Question # 2 of 10 (Start time: 10:05:19 PM, 15 June 2022)

Total Marks:

Which is not a binary operation on the set of natural numbers N?

Select the correct option

- Addition
- Subtraction
- Multiplication
- None of these.

QED

Question # 10 of 10 (Start time: 08:21:27 PM, 15 June 2022)

Total Marks: 1

Let A = {2, 3, 4} and B = {2,6,8}and let R be the "divides" relation from A to B
i.e. for all (a,b) belong to (Cartesian product of A and B),a R b iff a | b (a divides b).Then

Select the correct option

O	R = {(2,2), (2,6), (2,8), (3,6), (4,8),(6,8)}
O	R = {(3,6), (3,8)}
O	R = {(2,2), (2,6), (2,8), (3,6), (4,8)}
O	R = {(2,6), (3,6), (4,8)}

Click to Save Answer & Move to Next Question

Question # 3 of 10 (Start time: 08:35:08 PM, 15 June 2022) Total Marks: 1

A = { 1, 2} B = { 3, 4}.R = { (1, 3) (2, 4) }.Then the complement of R is _____.

Select the correct option

O	{ (4, 1) (2, 3) }
O	{ (1, 4) (2, 3) }
O	{ (1, 4) (3, 2) }
O	None of the above

Question # 3 of 10 (Start time: 04:56:47 PM, 15 June 2022)

If A={1 , 2 , 3} is a set and R = {(1 , 2) , (2 , 2) , (2 , 1)} is a relation on A, R is

Select the correct option

○	Reflexive
○	None of these
✓	Symmetric
○	Transitive

15 June, 15:14

Question # 1 of 10 (Start time

Total Mark

Let A = {4,5,6} then The relation R={(4,5),(5,4),(6,5),(5,6)} is _____.

Select the correct option

- R is Transitive
- R is Reflexive
- R is Symmetric
- R is Anti symmetric

Click to Save Answer & Move to Next Question

Q E D

uestion # 10 of 10 (Start time: 08:09:49 PM, 15 June 2022)

Let S = R and define the "square" relation R = $\{(x, y)|x^2 = y^2\}$. The square relation is an_____ relation

elect the correct option

○	Not equivalence relation
○	Equivalence relation

Question # 3 of 10 (Start time: 11:04:56 PM, 15 June 2022) Total Marks: 1

Let R be a binary relation on a set A.R is anti-symmetric iff _____.

Select the correct option

O	None of the above
O	a, b ∈A if (a,b) ∈R and (b,a) ∈R then a = b
O	a, b ∉A if (a,b) ∈R and (b,a) ∈R then a ≠ b
O	a, b ∈A if (a,b) ∈R and (b,a) ∈R then a ≠ b

Q E O

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Question # 6 of 10 (Start time: 09:08:07 PM, 15 June 2022)

Total Marks: 1

Let R be a binary relation on a set A. If R is anti symmetric then _____ .

Select the correct option

- Inverse of R is symmetric
- Inverse of R is anti symmetric

Let A = {1,2,3,4} and define the following relation on A.Then R={(1,3),(2,2), (2,4), (3,1), (4,2)} is _____.

Select the correct option

- R is Antisymmetric
- R is Symmetric

REO

MTH202:Quiz No.1 Quiz Start Time: 08:01 PM, 15 Ju

Question # 5 of 10 (Start time: 08:04:42 PM, 15 June 2022) Total

Let A = {1,2,3} and B = {0,1,2} and C = {a,b}
R = {(1,0),(1,2),(3,1),(3,2)}
S = {(0,b),(1,a),(2,b)}

Composite of R and S = _____ .

Select the correct option

- {(1,b),(3,a),(3,b)}
- {(1,a),(2,a),(3,a)}
- {(1,a),(1,b),(2,a),(3,b)}
- {(1,b),(1,a),(3,a),(3,b)}

2 E 0

Click to Save Answer & Move to Next Question

uestion # 8 of 10 (Start time: 05:04:36 PM, 15 June 2022) Total Mar

The logic gates OR and AND are uniary operation on {0,1}.

lect the correct option

- False
- True

OR AND
,
Binary

Cartesian product of two sets symbolically written as _____.

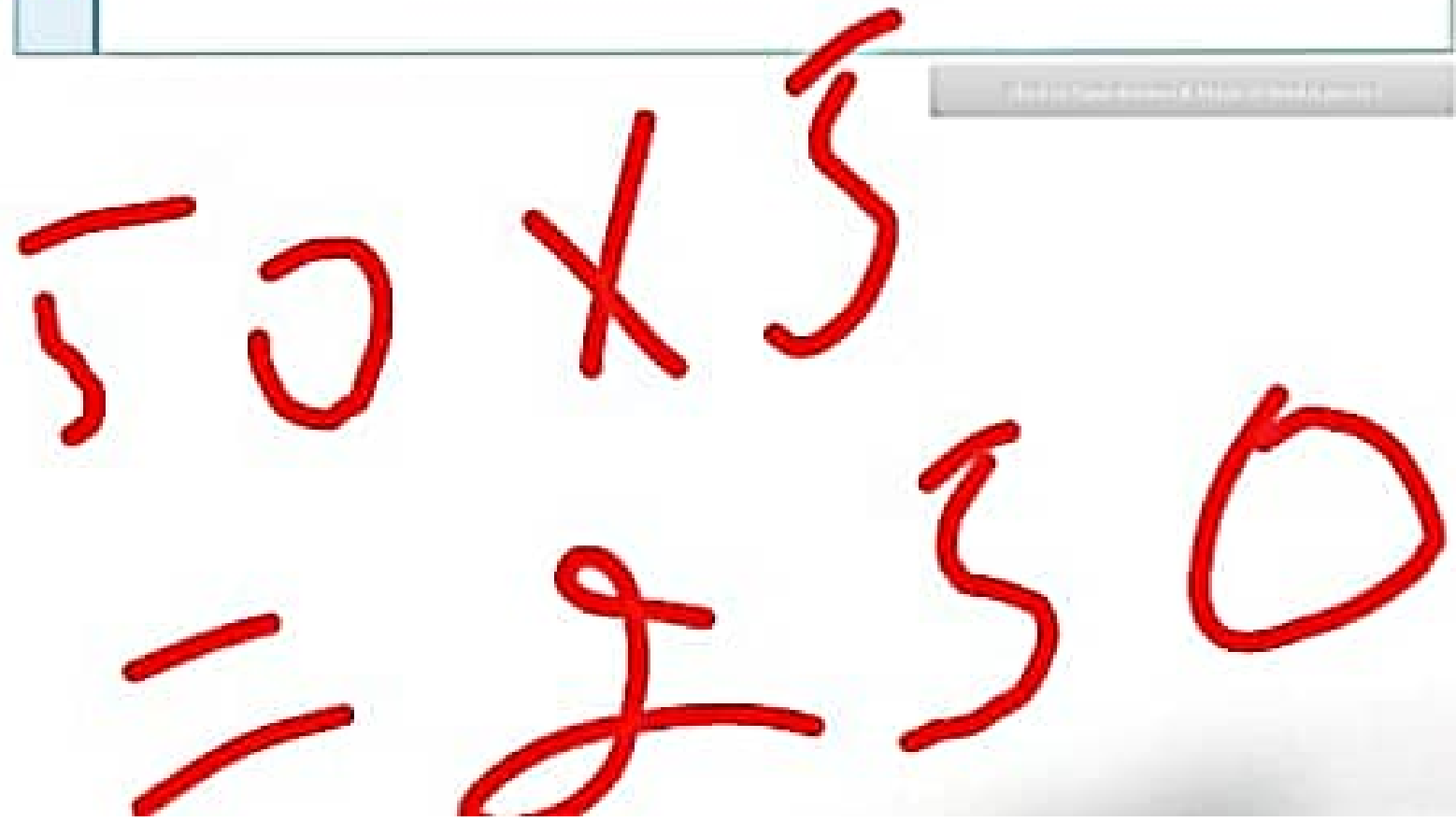
Select the correct option

- $A \times B = \{(a, b) \mid a \notin A \text{ and } b \notin B\}$
- $A \times B = \{(a, b) \mid a \in A \text{ and } b \in B\}$
- $A \times B = \{(a, b) \mid a \in A \text{ and } b \notin B\}$
- $A \times B = \{(a, b) \mid a \notin A \text{ and } b \in B\}$

Let A = {1,2,3,....,50}and B = {2,4,6,8,10).
Then the Cartesian product of A and B has _____elements.

Select the correct option

- 5
- 50
- 100
- 250



MTH202:Quiz No.1

Quiz Start Time: 09:34 PM, 15 June 202

Question # 1 of 10 (Start time: 09:34:50 PM, 15 June 2022)

Total Marks:

The logic gate NOT is a uniary operation on {0,1}.

Select the correct option

- True
- False

The inverse relation R^(-1) from B to A is defined as _____.

Select the correct option

- $R^{-1}= \{(b,a) \in B \times A \mid (a,b) \in R\}$
- $R^{-1}= \{(b,a) \in B \times A \mid (b,a) \in R\}$
- $R^{-1}= \{(b,a) \notin B \times A \mid (a,b) \in R\}$
- None of the above

Click to Save Answer & Move to Next Question

If a relation R={(1,1)(2,1)(1,2)(2,2)} is given then which of the following is not true about this relation.

Select the correct option

- R is Symmetric.
- R is Irreflexive.
- R is Reflexive.
- R is Transitive

Click to Save Answer & Move to Next Question

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Time Left 90 sec(s)

MTH202:Quiz No.1

Quiz Start Time: 08:13 PM, 15 June 2022

Question # 6 of 10 (Start time: 08:17:59 PM, 15 June 2022)

Total Marks:

Input values of the function are called the .....

Select the correct option

- None of these.
- Domain
- Range
- Relation

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MTH202:Quiz No.1

Time Left 90 sec(s)

Quiz Start Time: 08:13 PM, 15 June 2022

Question # 3 of 10 (Start time: 08:15:06 PM, 15 June 2022)

Total Marks: 1

Which of the following is always true for the matrix representation of a symmetric relation?

Select the correct option

- Matrix is singular
- Matrix has always 1 in its diagonal entries
- Matrix is equal to its transpose.
- Matrix has always 0 in its diagonal entries

Question # 2 of 10 (Start time: 08:33:14 PM, 15 June 2022)

Total Marks: 1

Let A = {1,2,3,4} and define the relation R on A by
R = {(1,2), (2,3), (3,3), (3,4)}.Then _____

Select the correct option

O	R is both reflexive and irreflexive
O	R is irreflexive
O	R is neither reflexive nor irreflexive
O	R is reflexive

Click to Save Answer & Move to Next Question

Question # 10 of 10 (Start time: 05:44:45 PM, 15 June 2022)

Total Mark

The inverse relation R^(-1) from B to A is defined as _____.

Select the correct option

- R^(-1)= {(b,a) ∈B×A | (a,b) ∈R}
- R^(-1)= {(b,a) ∉ B×A | (a,b) ∈R}
- None of the above
- R^(-1)= {(b,a) ∈B×A | (b,a) ∈R}

QE10

Click M Time Answer & Move to Next Question

Given A={1,2} and B={5,6,7}, then B × A = _____.

Select the correct option

○	{(1,5), (1,6), (1,7), (2,5), (2,6)}
●	{(5,1), (5,2), (6,1), (6,2), (7,1), (7,2)}
○	{(5,1), (5,2), (6,1), (6,2), (7,1)}
○	{(1,5), (1,6), (1,7), (2,5), (2,6), (2,7)}

In the directed graph of an antisymmetric relation there is .....pair of arrows between two distinct elements of the set.

Select the correct option

- o infinite
- o two
- o no
- o one

2 E D

Question # 1 of 10 (Start time: 10:04:28 PM, 15 June 2022) Total Marks: 1

For the following relation to be a function, x can not be what values?
R = {(2,4), (x,1), (4,2), (5,6)}

Select the correct option

- x cannot be 1,2 or 6
- x cannot be 2,4 or 5
- x cannot be 4,1 or 6
- x cannot be 2,4 or 6

Question # 5 of 10 (Start time: 08:17:02 PM, 15 June 2022)

Tota

Let A = {1,2,3,4} and define the following relations on A
Then
R = {(1,3), (1,4), (2,3), (2,4), (3,1), (3,4)} is _____.

Select the correct option

- R is irreflexive
- R is both reflexive and irreflexive
- R is reflexive
- None of the above

(BS Math 8th) Semester

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BC200403342: SIDRA JAVED

Time Left 89 sec(s)

MTH202:Quiz No.1

Quiz Start Time: 08:13 PM, 15 June 202

Question # 9 of 10 (Start time: 08:20:28 PM, 15 June 2022)

Total Marks:

Suppose A has 3 elements and B has 4 elements, then the number of functions from A to B are.....

Select the correct option

Reload Math Equations

- O 81
- O 7
- O 12
- O 64

Click to Save Answer & Move to Next Question

$3^4 = 64$

Question # 10 of 10 (Start time: 09:00:02 PM, 15 June 2022) Total Marks: 1

There is atleast one loop in the graph of an irreflexive relation.

Select the correct option

- True
- False

Question # 7 of 10 (Start time: 08:39:50 PM, 15 June 2022) Total Marks: 1

If R is transitive then the inverse relation will be transitive.

Select the correct option

- false
- true ✓

Click to Save Answer & Move to Next Question

Question # 1 of 10 (Start time: 09:20:43 PM, 15 June 2022)

Let A = {4,5,6} then The relation R={(4,5),(5,4),(6,5),(5,6)} is _____.

Select the correct option

○	R is Reflexive
○	R is Symmetric
○	R is Anti symmetric
○	R is Transitive

Question # 8 of 10 (Start time: 08:40:37 PM, 15 June 2022) Total Marks: 1

In the directed graph of an antisymmetric relation there is .....pair of arrows between two distinct elements of the set.

Select the correct option

- o one
- o no
- o infinite
- o two

Click to Save Answer & Move to Next Question

Question # 1 of 10 (Start time: 08:13:04 PM, 15 June 2022)

Total Marks:

Complementary Relation symbolically written as _____.

Select the correct option

O	$\bar{R} = A \times B - R = \{(a,b) \in A \times B \mid (a,b) \in R\}$
	$\bar{R} = A \times B - R = \{(a,b) \in A \times B \mid (a,b) \notin R\}$

Click to Save Answer & Move to Next Question

Question # 2 of 10 (Start time: 04:55:05 PM, 15 June 2022)

The domain of a relation R from A to B is symbolically written as:

Select the correct option

O	D(R) = {a belongs to B such that (a,b) belongs to R}
O	D(R) = {a belongs to A such that (a,b) belongs to R}