



MTH-202 Discrete Mathematics Update MCQS For Quiz-2 File Solve By Vu Topper RM



80 To 100% Marks



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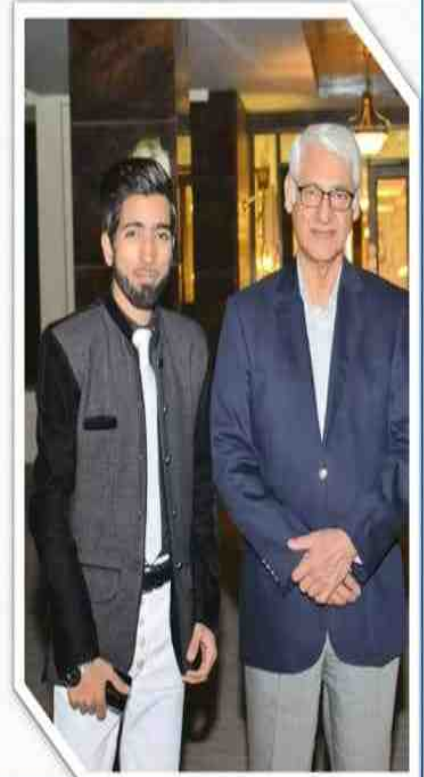
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MTH202 - Discrete Mathematics (Quiz No.3.)

Quiz Start Time: 07:25 PM, 19 August 2022

Question # 1 of 10 (Start time: 07:25:57 PM, 19 August 2022)

Total Marks: 1

'Reductio ad absurdum' is another name of -----

Select the correct option

- | | |
|----------------------------------|-------------------------|
| ☐ | None of these. |
| ☐ | Direct Method of proof |
| ☒ | proof by contradiction |
| ☐ | proof by contrapositive |

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MTH202 - Discrete Mathematics (Quiz No.3.)

Quiz Start Time: 07:38 PM, 19 August 2022

Question # 1 of 10 (Start time: 07:38:15 PM, 19 August 2022)

Total Marks: 1

To prove by mathematical induction Inductive Step is -----.

Select the correct option

If $P(k)$ is true then $P(k+1)$ is true for all integers $k \geq 1$



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If $P(k)$ is true then $P(k-1)$ is true for all integers $k \geq 1$



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Question # 1 of 10 (Start time: 06:06:24 PM, 19 August 2022)

Total Marks: 1

To prove by mathematical induction basis step is _____.

Select the correct option

- | | |
|----------------------------------|---------------------------------|
| ☐ | The proposition $P(1)$ is false |
| ☒ | The proposition $P(1)$ is true |

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Quiz x The predicate which describes th x +

vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=a83c854f-3cb0-4caa-ba3b-33cd4217f17b

Gmail YouTube (1345) 2020 Spe... (1366) HINDI 8EAU... Learning Managem... (1394) 2020 Spe... Which of the follow... Microsoft Word - C... Top 10 Songs Anjit...

MTH202 - Discrete Mathematics (Quiz No.3.) Quiz Start Time: 07:38 PM, 19 August 2022

Question # 2 of 10 (Start time: 07:38:50 PM, 19 August 2022)

Total Marks: 1

The predicate which describes the initial state is called the ----- of the algorithm

Select the correct option

☐	post-condition
☒	pre-condition

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Windows taskbar with icons for File Explorer, Mail, Store, Word, Excel, and Chrome. System tray shows ENG IN, 7:39 AM, 19/08/2022, and a notification icon.

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MTH202 - Discrete Mathematics (Quiz No.3.)

Quiz Start Time: 06:06 PM, 19 August 2022

Question # 2 of 10 (Start time: 06:06:59 PM, 19 August 2022)

Total Marks: 1

Which of the following is the representation of an odd interger 'n'?

Select the correct option

- | | |
|----------------------------------|-------------------------------|
| ☐ | $n=2k$ for some integer 'k' |
| ☐ | $n=3k$ for some integer 'k' |
| ☒ | $n=2k+1$ for some integer 'k' |
| ☐ | $n=3k+1$ for some integer 'k' |

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MTH202 - Discrete Mathematics (Quiz No.3.)

Quiz Start Time: 07:25 PM, 19 August 2022

Question # 2 of 10 (Start time: 07:27:01 PM, 19 August 2022)

Total Marks: 1

If 'n' is an odd integer then $n^3 + n$ is

Select the correct option

even



odd



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MTH202 - Discrete Mathematics (Quiz No.3.)

Quiz Start Time: 07:38 PM, 19 August 2022

Question # 3 of 10 (Start time: 07:39:16 PM, 19 August 2022)

Total Marks: 1

To prove by mathematical induction basis step is _____.

Select the correct option

The proposition $P(1)$ is false



The proposition $P(1)$ is true



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MTH202 - Discrete Mathematics (Quiz No.3.)

Quiz Start Time: 06:06 PM, 19 August 2022

Question # 4 of 10 (Start time: 06:08:10 PM, 19 August 2022)

Total Marks: 1

A non-zero integer d divides an integer n if and only if there exists an integer k such that -----

Select the correct option

- | | |
|----------------------------------|-------------|
| ☐ | $n = d - k$ |
| ☐ | $n = d + k$ |
| ☐ | $n = d / k$ |
| ☒ | $n = dk$ |

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Question # 4 of 10 (Start time: 07:39:47 PM, 19 August 2022)

Total Marks: 1

'Reductio ad absurdum' is another name of

Select the correct option

☐	proof by contrapositive
☐	None of these.
☐	Direct Method of proof
☒	proof by contradiction

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MTH202 - Discrete Mathematics (Quiz No.3.)

Quiz Start Time: 07:25 PM, 19 August 2022

Question # 4 of 10 (Start time: 07:27:49 PM, 19 August 2022)

Total Marks: 1

The sum of any rational number and any irrational number is irrational.

Select the correct option

False



True



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MTH202 - Discrete Mathematics (Quiz No.3.)

Quiz Start Time: 06:06 PM, 19 August 2022

Question # 5 of 10 (Start time: 06:08:36 PM, 19 August 2022)

Total Marks: 1

If the guard G and the loop invariant $I(k)$ are both true for an integer $k \geq 0$ before an iteration of the loop, then $I(k+1)$ is?

Select the correct option

False



True



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Quiz x The sum of any rational number x +

vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=cedcb998-2107-49eb-b526-f4c6c2387e08

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MTH202 - Discrete Mathematics (Quiz No.3)

Quiz Start Time: 07:38 PM, 19 August 2022

Question # 5 of 10 (Start time: 07:40:25 PM, 19 August 2022)

Total Marks: 1

The sum of any rational number and any irrational number is irrational.

Select the correct option

☐	False
☒	True

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Question # 5 of 10 (Start time: 07:28:07 PM, 19 August 2022)

Total Marks: 1

The sum of $(6 - 7\sqrt{2})$ and $(6 + 7\sqrt{2})$ is

Select the correct option

- | | |
|----------------------------------|------------------|
| ☐ | $2(6+7\sqrt{2})$ |
| ☐ | $2(6-7\sqrt{2})$ |
| ☐ | $12-14\sqrt{2}$ |
| ☒ | 12 |

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sec(s)

MTH202 - Discrete Mathematics (Quiz No.3.)

Quiz Start Time: 07:25 PM, 19 August 2022

Question # 6 of 10 (Start time: 07:28:39 PM, 19 August 2022)

Total Marks: 1

The sequence $1 + 2 + 3 + 4 + \dots + n$ is equal to _____.

Select the correct option

Reload Math Equations

☒	By Vu Topper RM	$\frac{n(n+1)(2n+1)}{6}$
☐		$\frac{n^2}{2}$
☐		$\frac{n^2(n+1)^2}{4}$
☐		$\frac{n(n+1)}{2}$

Click to Save Answer & Move to Next Question

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MTH202 - Discrete Mathematics (Quiz No.3.)

Quiz Start Time: 05:59 PM, 19 August 2022

Question # 6 of 10 (Start time: 06:01:40 PM, 19 August 2022)

Total Marks: 1

A proof byis based on the logical equivalence between a statement and its contrapositive.

Select the correct option

- | | |
|----------------------------------|------------------------|
| ☐ | mathematical induction |
| ☐ | contradiction |
| ☒ | contraposition |
| ☐ | counter example |

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MTH202 - Discrete Mathematics (Quiz No.3.)

Quiz Start Time: 06:06 PM, 19 August 2022

Question # 6 of 10 (Start time: 06:09:05 PM, 19 August 2022)

Total Marks: 1

An integer n is a perfect square if and only if ----- for some integer k.

Select the correct option

- | | |
|----------------------------------|--------------------------------|
| ☐ | $n = k^3$ |
| ☐ | $n = \text{square-root of } k$ |
| ☒ | $n = 2k$ |
| ☐ | $n = k^2$ |

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MTH202 - Discrete Mathematics (Quiz No.3.)

Quiz Start Time: 07:38 PM, 19 August 2022

Question # 6 of 10 (Start time: 07:40:43 PM, 19 August 2022)

Total Marks: 1

Proof by contraposition is based on the logical equivalence between a statement and its.....

Select the correct option

☐	Converse
☐	Inverse
☐	none of these
☒	contrapositive

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MTH202 - Discrete Mathematics (Quiz No.3.)

Quiz Start Time: 07:25 PM, 19 August 2022

Question # 7 of 10 (Start time: 07:28:58 PM, 19 August 2022)

Total Marks: 1

The rational number '2' is the product of which of the two irrational numbers.

Select the correct option

☒	$\sqrt{2}, \sqrt{2}$
☐	$\sqrt{2}, \sqrt{3}$
☐	$\sqrt{2}, \sqrt{7}$
☐	$\sqrt{2}, \sqrt{5}$

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MTH202 - Discrete Mathematics (Quiz No.3.)

Quiz Start Time: 06:06 PM, 19 August 2022

Question # 7 of 10 (Start time: 06:09:52 PM, 19 August 2022)

Total Marks: 1

A predicate becomes ----- when its variables are given specific values.

Select the correct option

☐	iteration
☒	sentence
☐	statement
☐	algorithm

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MTH202 - Discrete Mathematics (Quiz No.3.)

Quiz Start Time: 07:38 PM, 19 August 2022

Question # 7 of 10 (Start time: 07:41:09 PM, 19 August 2022)

Total Marks: 1

In division algorithm the pre-condition is?

Select the correct option

☐ q and r are nonnegative integers

☒ a is a nonnegative integer and d is a positive integer

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MTH202 - Discrete Mathematics (Quiz No.3.)

Quiz Start Time: 05:59 PM, 19 August 2022

Question # 8 of 10 (Start time: 06:03:59 PM, 19 August 2022)

Total Marks: 1

Which of the following statement is true according to the Division Algorithm?

Select the correct option

- | | |
|----------------------------------|------------------------|
| ☐ | $17 = 5 \times 1 + 12$ |
| ☒ | $17 = 5 \times 3 + 2$ |
| ☐ | $17 = 5 \times 5 - 8$ |
| ☐ | $17 = 5 \times 4 - 3$ |

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sec(s)

MTH202 - Discrete Mathematics (Quiz No.3)

Quiz Start Time: 07:38 PM, 19 August 2022

Question # 8 of 10 (Start time: 07:41:38 PM, 19 August 2022)

Total Marks: 1

The statement $3^n < n!$ is true when _____.

Select the correct option

Reload Math Equations

☐	$n = 6$
☐	$n = 2$
☒	$n > 6$
☐	$n = 4$

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Click to Save Answer & Move to Next Question

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MTH202 - Discrete Mathematics (Quiz No.3)

Quiz Start Time: 06:06 PM, 19 August 2022

Question # 8 of 10 (Start time: 06:10:20 PM, 19 August 2022)

Total Marks: 1

The sequence $1^3 + 2^3 + 3^3 + \dots + n^3 = \dots$

Select the correct option

Reload Math Equations

- | | |
|----------------------------------|--------------------------|
| ☐ | $\frac{n(n+1)}{2}$ |
| ☒ | $\frac{n(n+1)(2n+1)}{6}$ |
| ☐ | $\frac{n^2(n+1)^2}{4}$ |
| ☐ | $\frac{n^2}{2}$ |

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MTH202 - Discrete Mathematics (Quiz No.3.)

Quiz Start Time: 07:25 PM, 19 August 2022

Question # 8 of 10 (Start time: 07:29:28 PM, 19 August 2022)

Total Marks: 1

A predicate is a sentence that contains a finite number of -----

Select the correct option

Constants



variables



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MTH202 - Discrete Mathematics (Quiz No.3.)

Quiz Start Time: 05:59 PM, 19 August 2022

Question # 9 of 10 (Start time: 06:04:47 PM, 19 August 2022)

Total Marks: 1

A non-zero integer d divides an integer n if and only if there exists an integer k such that -----

Select the correct option

☒	$n = dk$
☐	$n = d + k$
☐	$n = d / k$
☐	$n = d - k$

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MTH202 - Discrete Mathematics (Quiz No.3.)

Quiz Start Time: 06:06 PM, 19 August 2022

Question # 9 of 10 (Start time: 06:11:13 PM, 19 August 2022)

Total Marks: 1

The sum of two integers is not an even integer when

Select the correct option

☒	one is even and one is odd
☐	one is 0 and one is even
☐	both are odd
☐	both are even

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MTH202 - Discrete Mathematics (Quiz No.3.)

Quiz Start Time: 07:25 PM, 19 August 2022

Question # 9 of 10 (Start time: 07:29:51 PM, 19 August 2022)

Total Marks: 1

If the guard G and the loop invariant $I(k)$ are both true for an integer $k \geq 0$ before an iteration of the loop, then $I(k+1)$ is?

Select the correct option

☐	False
☒	True

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MTH202 - Discrete Mathematics (Quiz No.3.)

Quiz Start Time: 06:06 PM, 19 August 2022

Question # 10 of 10 (Start time: 06:11:48 PM, 19 August 2022)

Total Marks: 1

A predicate is a sentence that contains a finite number of -----

Select the correct option

Constants



variables



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MTH202 - Discrete Mathematics (Quiz No.3.)

Quiz Start Time: 05:59 PM, 19 August 2022

Question # 10 of 10 (Start time: 06:05:12 PM, 19 August 2022)

Total Marks: 1

Proof by Contradiction is a/an..... method of proof.

Select the correct option

Indirect



Direct



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Question # 10 of 10 (Start time: 07:30:12 PM, 19 August 2022)

Total Marks: 1

To prove by mathematical induction for $1+3+5+\dots+(2n-1) = n^2$ for all positive integers, the basis step is -----

Select the correct option

- | | |
|----------------------------------|---|
| ☐ | $1+3+5+\dots+(2(k+1)-1) = (k+1)^2$ |
| ☒ | LHS = $p(1) = 2 \times 1 - 1 = 1$, RHS = $1^2 = 1$ |
| ☐ | $1+3+5+\dots+(2n-1) = n^2$ |
| ☐ | $1+3+5+\dots+(2k-1) = k^2$ |

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MTH202 - Discrete Mathematics (Quiz No.4)

Quiz Start Time: 04:18 PM, 04 September 2022

Question # 1 of 10 (Start time: 04:18:31 PM, 04 September 2022)

Total Marks: 1

How many bit strings of length two do not have two consecutive 1's ?

Select the correct option

☒	2
☐	3
☐	4
☐	1

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MTH202 - Discrete Mathematics (Quiz No.4)

Quiz Start Time: 04:07 PM, 04 September 2022

Question # 2 of 10 (Start time: 04:09:02 PM, 04 September 2022)

Total Marks: 1

If A and B are finite sets then

$$n(A \cup B) = \underline{\hspace{2cm}}$$

Select the correct option

Reload Math Equations

- | | |
|----------------------------------|-----------------------------|
| ☒ | $n(A) + n(B) - n(A \cap B)$ |
| ☐ | $n(A) + n(B)$ |
| ☐ | $n(A) + n(B) - n(A \cup B)$ |
| ☐ | $n(A) + n(B) + n(A \cap B)$ |

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Click to Save Answer & Move to Next Question

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MTH202 - Discrete Mathematics (Quiz No.4)

Quiz Start Time: 04:07 PM, 04 September 2022

Question # 3 of 10 (Start time: 04:10:23 PM, 04 September 2022)

Total Marks: 1

If A and B are disjoint finite sets then

$$n(A \cup B) = \underline{\hspace{2cm}}.$$

Select the correct option

Reload Math Equations

☒	$n(A) + n(B)$
☐	$n(A) + n(B) + n(A \cap B)$
☐	$n(A) - n(B)$
☐	$n(A) + n(B) - n(A \cap B)$

Click to Save Answer & Move to Next Question

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MTH202 - Discrete Mathematics (Quiz No.4)

Quiz Start Time: 04:18 PM, 04 September 2022

Question # 3 of 10 (Start time: 04:19:45 PM, 04 September 2022)

Total Marks: 1

Which of the followings is the probability of getting a 6 when a dice is tossed ?

Select the correct option

☐	1/3
☐	1
☐	0
☒	1/6

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MTH202 - Discrete Mathematics (Quiz No.4)

Quiz Start Time: 04:07 PM, 04 September 2022

Question # 4 of 10 (Start time: 04:11:25 PM, 04 September 2022)

Total Marks: 1

When a dice and a coin are tossed together, then which of the following is the sample space?

Select the correct option

☒	$\{1H, 2H, 3H, 4H, 5H, 6H, 1T, 2T, 3T, 4T, 5T, 6T\}$
☐	$\{1, 2, 3, 4, 5, 6\}$
☐	$\{1H, 2H, 3H, 4T, 5T, 6T\}$
☐	$\{H, T\}$

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بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نيك صحبت بہتر ہے

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MTH202 - Discrete Mathematics (Quiz No.4)

Quiz Start Time: 04:18 PM, 04 September 2022

Question # 4 of 10 (Start time: 04:20:37 PM, 04 September 2022)

Total Marks: 1

When a dice and a coin are tossed together, then which of the following is the sample space?

Select the correct option

- ☐ {H, T}
- ☒ {1H, 2H, 3H, 4H, 5H, 6H, 1T, 2T, 3T, 4T, 5T, 6T}
- ☐ {1H, 2H, 3H, 4T, 5T, 6T}
- ☐ {1, 2, 3, 4, 5, 6}

By Vu Topper RM



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MTH202 - Discrete Mathematics (Quiz No.4)

Quiz Start Time: 04:07 PM, 04 September 2022

Question # 5 of 10 (Start time: 04:12:13 PM, 04 September 2022)

Total Marks: 1

Who gave the first definition of the probability as the number of successful outcomes divided by the number of total outcomes?

Select the correct option

☒	Laplace
☐	Leonhard Euler
☐	Blaise Pascal
☐	none

By Vu Topper RM



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MTH202 - Discrete Mathematics (Quiz No.4)

Quiz Start Time: 04:07 PM, 04 September 2022

Question # 7 of 10 (Start time: 04:14:05 PM, 04 September 2022)

Total Marks: 1

If A and B be events with $P(A)=1/3$, $P(B)=1/4$ and $P(A \text{ intersection } B)=1/6$, then $P(A \cup B)=$ _____.

Select the correct option

☒	5/12
☐	1/2
☐	1/24
☐	2/3

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MTH202 - Discrete Mathematics (Quiz No.4)

Quiz Start Time: 04:18 PM, 04 September 2022

Question # 7 of 10 (Start time: 04:22:43 PM, 04 September 2022)

Total Marks: 1

A tree is normally constructed from _____.

Select the correct option

☐	right
☒	left to right
☐	right to left
☐	center

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sec(s)

MTH202 - Discrete Mathematics (Quiz No.4)

Quiz Start Time: 04:07 PM, 04 September 2022

Question # 8 of 10 (Start time: 04:14:52 PM, 04 September 2022)

Total Marks: 1

Let $E(X^2) = 6$, $\mu^2 = 2$, then standard deviation is

Select the correct option

Reload Math Equations

☐	-2
☒	2
☐	4
☐	8

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Click to Save Answer & Move to Next Question



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MTH202 - Discrete Mathematics (Quiz No.4)

Quiz Start Time: 04:18 PM, 04 September 2022

Question # 8 of 10 (Start time: 04:23:30 PM, 04 September 2022)

Total Marks: 1

If B is a subset of A then

$$P(A|B) = 1$$

Select the correct option

Reload Math Equations

False



True



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Click to Save Answer & Move to Next Question



برى صحبت سے تنہائی بہتر ہے اور تنہائی سے نیک صحبت بہتر ہے

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MTH202 - Discrete Mathematics (Quiz No.4)

Quiz Start Time: 04:07 PM, 04 September 2022

Question # 9 of 10 (Start time: 04:15:31 PM, 04 September 2022)

Total Marks: 1

If X and Y are independent random variables, then $E(XY)$ is equal to _____.

Select the correct option

Reload Math Equations

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☒ $E(X)E(Y)$

☐ $XE(Y)$

☐ $E(XY)$

☐ $YE(X)$

Click to Save Answer & Move to Next Question



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MTH202 - Discrete Mathematics (Quiz No.4)

Quiz Start Time: 04:07 PM, 04 September 2022

Question # 10 of 10 (Start time: 04:16:46 PM, 04 September 2022)

Total Marks: 1

The probability of a an event lies between 0 and 1.

Select the correct option

False



True



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MTH202 - Discrete Mathematics (Quiz No.4)

Quiz Start Time: 04:18 PM, 04 September 2022

Question # 10 of 10 (Start time: 04:24:47 PM, 04 September 2022)

Total Marks: 1

If A and B are finite sets then

$$n(A \cup B) = \underline{\hspace{2cm}}.$$

Select the correct option

Reload Math Equations

- | | |
|----------------------------------|-----------------------------|
| ☒ | $n(A) + n(B) - n(A \cap B)$ |
| ☐ | $n(A) + n(B) - n(A \cup B)$ |
| ☐ | $n(A) + n(B) + n(A \cap B)$ |
| ☐ | $n(A) + n(B)$ |

Click to Save Answer & Move to Next Question



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MTH202 - Discrete Mathematics (Quiz No.4)

Quiz Start Time: 04:26 PM, 04 September 2022

Question # 2 of 10 (Start time: 04:27:26 PM, 04 September 2022)

Total Marks: 1

If A and B are finite sets then

$$n(A \cup B) = \underline{\hspace{2cm}}.$$

Select the correct option

Reload Math Equations

- | | |
|----------------------------------|-----------------------------|
| ☐ | $n(A) + n(B) + n(A \cap B)$ |
| ☐ | $n(A) + n(B) - n(A \cap B)$ |
| ☐ | $n(A) + n(B)$ |
| ☒ | $n(A) + n(B) - n(A \cup B)$ |

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MTH202 - Discrete Mathematics (Quiz No.4)

Quiz Start Time: 04:26 PM, 04 September 2022

Question # 1 of 10 (Start time: 04:26:57 PM, 04 September 2022)

Total Marks: 1

If $E(5)=5$, then find arithmetic mean will be

Select the correct option

☐	1
☒	5
☐	10
☐	0

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MTH202 - Discrete Mathematics (Quiz No.4)

Quiz Start Time: 04:26 PM, 04 September 2022

Question # 7 of 10 (Start time: 04:29:37 PM, 04 September 2022)

Total Marks: 1

If A and B are two independent events then $P(A \cap B) = \dots\dots\dots$

Select the correct option

Reload Math Equations

☐	$P(B)$
☐	$P(A)$
☐	1
☒	$P(A)P(B)$

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sec(s)

MTH202 - Discrete Mathematics (Quiz No.4)

Quiz Start Time: 04:26 PM, 04 September 2022

Question # 5 of 10 (Start time: 04:28:37 PM, 04 September 2022)

Total Marks: 1

$$P(A|B) = \frac{P(A \cap B)}{P(B)}, \text{ where } \dots\dots\dots$$

Select the correct option

Reload Math Equations

☐ $P(B) = 0$

☐ $P(B) < 0$

☐ $P(B) > 1$

☒ $P(B) > 0$

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MTH202 - Discrete Mathematics (Quiz No.4)

Quiz Start Time: 04:26 PM, 04 September 2022

Question # 4 of 10 (Start time: 04:28:06 PM, 04 September 2022)

Total Marks: 1

If X and Y are random variables, then $E(X-Y)$ is equal to

Select the correct option

☐	$E(X-Y)$
☐	$E(X+Y)$
☒	$E(X)-E(Y)$
☐	$E(X)+E(Y)$

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MTH202 - Discrete Mathematics (Quiz No.4)

Quiz Start Time: 04:18 PM, 04 September 2022

Question # 2 of 10 (Start time: 04:19:13 PM, 04 September 2022)

Total Marks: 1

Among 20 people, 15 either swim or jog or both. If 5 swim and 6 swim and jog, how many jog ?

Select the correct option

☐	24
☐	46
☒	16
☐	6

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MTH202 - Discrete Mathematics (Quiz No.4)

Quiz Start Time: 11:32 PM, 04 September 2022

Question # 1 of 10 (Start time: 11:32:30 PM, 04 September 2022)

Total Marks: 1

What is the probability of getting a number greater than 3 when a dice is tossed?

Select the correct option

- ☐ 1/3
- ☐ 1/2
- ☐ 1/5
- ☒ 1/4

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TIME LEFT
sec(s)

MTH202 - Discrete Mathematics (Quiz No.4)

Quiz Start Time: 11:32 PM, 04 September 2022

Question # 4 of 10 (Start time: 11:35:08 PM, 04 September 2022)

Total Marks: 1

A random variable is also called a Stochastic variable

Select the correct option

Reload Math Equations

False



True



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Click to Save Answer & Move to Next Question



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MTH202 - Discrete Mathematics (Quiz No.4)

Quiz Start Time: 10:22 PM, 07 September 2022

Question # 2 of 10 (Start time: 10:22:33 PM, 07 September 2022)

Total Marks: 1

The expected value $E(X)$ is obtained by multiplying each value of x with its probability and taking the sum.

Select the correct option

Reload Math Equations

☐	False
☒	True

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Click to Save Answer & Move to Next Question

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00:00:00
sec(s)

MTH202 - Discrete Mathematics (Quiz No.4)

Quiz Start Time: 10:22 PM, 07 September 2022

Question # 3 of 10 (Start time: 10:23:18 PM, 07 September 2022)

Total Marks: 1

What is the probability of the number of one head when two fair coins are tossed?

Select the correct option

2/4



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1/4



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sec(s)

MTH202 - Discrete Mathematics (Quiz No.4)

Quiz Start Time: 10:22 PM, 07 September 2022

Question # 10 of 10 (Start time: 10:28:15 PM, 07 September 2022)

Total Marks: 1

If the random variable X denotes the number of heads when three distinct coins are tossed, then X assumes the value

Select the correct option

Reload Math Equations

- | | |
|----------------------------------|---------|
| ☐ | 0,1,2 |
| ☐ | 1,3,3,1 |
| ☒ | 0,1,2,3 |
| ☐ | 1,2,3 |

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Click to Save Answer & Move to Next Question

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MTH202 - Discrete Mathematics (Quiz No.4)

Quiz Start Time: 11:32 PM, 04 September 2022

Question # 10 of 10 (Start time: 11:38:47 PM, 04 September 2022)

Total Marks: 1

What is the probability of getting a number greater than 5 when a dice is tossed?

Select the correct option

- ☐ 2/6
- ☐ 1/5
- ☒ 1/6
- ☐ 1/3

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MTH202 - Discrete Mathematics (Quiz No.4)

Quiz Start Time: 11:32 PM, 04 September 2022

Question # 6 of 10 (Start time: 11:36:19 PM, 04 September 2022)

Total Marks: 1

A Random variable is also called a

Select the correct option

Constant



Chance Variable



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MTH202 - Discrete Mathematics (Quiz No.4)

Quiz Start Time: 04:26 PM, 04 September 2022

Question # 9 of 10 (Start time: 04:30:45 PM, 04 September 2022)

Total Marks: 1

If A and B are disjoint sets then $P(A|B) = \dots\dots\dots$

Select the correct option

Reload Math Equations

- | | |
|----------------------------------|--------|
| ☐ | 0 |
| ☐ | 1 |
| ☐ | $P(B)$ |
| ☒ | $P(A)$ |

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Click to Save Answer & Move to Next Question



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Question # 1 of 10 (Start time: 06:47:24 PM, 20 January 2023)

Total Marks: 1

An integer n is prime number, if and only if
for all positive integers r and s , if $n = rs$ then -----

Select the correct option

- | | |
|----------------------------------|---------------------------|
| ☒ | $r = 1 \text{ or } s = 1$ |
| ☐ | $r > 1 \text{ or } s > 1$ |
| ☐ | $r = s$ |
| ☐ | $r < 1 \text{ or } s < 1$ |
- Task View

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Question # 3 of 10 (Start time: 06:50:31 PM, 20 January 2023)

Total Marks: 1

$(-1)^n = 1$ for $n = \dots$
(^ stands for power)

Select the correct option

- | | |
|----------------------------------|---|
| ☐ | 3 |
| ☐ | 7 |
| ☒ | 4 |
| ☐ | 5 |

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To prove by mathematical induction for $1+5+9+\dots+(4n-3)=n(2n-1)$ for all positive integers, the inductive step is true for $n=k$ is _____.

Select the correct option

$$1+5+9+\cdots+(4k+3)=k(2k-1)$$

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$$1+5+9+\cdots+(4k-3)=k(2k-1)$$

$$1+5+9+\cdots+(4k-3)=k(2k+1)$$

$$1+5+9+\cdots+(4k+3)=k(2k+1)$$

[Click to Save Answer & Move to Next Question](#)

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Question # 4 of 10 (Start time: 06:51:34 PM, 20 January 2023)

Total Marks:

A non-zero integer d divides an integer n if and only if there exists an integer k such that -----

Select the correct option

- ☒ $n = dk$
- ☐ $n = d - k$
- ☐ $n = d / k$
- ☐ $n = d + k$

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sec(s)

MTH202 - Discrete Mathematics (Quiz No.2)

Quiz Start Time: 06:47 PM, 20 January 2023

Question # 5 of 10 (Start time: 06:53:14 PM, 20 January 2023)

Total Marks: 1

The sum of two odd integers is

Select the correct option

☐	odd
☒	even

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Windows taskbar: Search, File Explorer, Microsoft Edge, Mail, Calendar, Photos, Settings, Task View, Start

System tray: Speaker, Network, ENG IN, 6:54 PM, 20/01/2023, Battery

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In inductive step of proof by mathematical induction, the assumption is made for

Select the correct option

- | | |
|----------------------------------|---------|
| ☐ | $n=k$ |
| ☐ | $n=1$ |
| ☐ | $n=0$ |
| ☒ | $n=k+1$ |

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Question # 8 of 10 (Start time: 06:57:07 PM, 20 January 2023)

Total Marks: 1

The sum of two irrational numbers must be an irrational number.

Select the correct option

False



True



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MTH202 - Discrete Mathematics (Quiz No.2)

Quiz Start Time: 06:47 PM, 20 January 2023

Question # 9 of 10 (Start time: 06:58:01 PM, 20 January 2023)

Total Marks: 1

To prove by mathematical induction Inductive Step is _____.

Select the correct option

If $P(k)$ is true then $P(k+1)$ is true for all integers $k \geq 1$

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If $P(k)$ is true then $P(k - 1)$ is true for all integers $k \geq 1$

Question # 10 of 10 (Start time: 06:58:44 PM, 20 January 2023)

Total Marks: 1

The sum of any rational number and any irrational number is irrational.

Select the correct option

False



True



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MTH202 – Discrete Mathematics (Quiz No.2)

Quiz Start Time: 07:00 PM, 20 January 2023

Question # 1 of 10 (Start time: 07:00:59 PM, 20 January 2023)

Total Marks:

Proof by Contradiction is a/an..... method of proof.

Select the correct option

Direct

Indirect

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Question # 3 of 10 (Start time: 07:02:17 PM, 20 January 2023)

Total Marks: |

In the proof by contradiction, we lead the assumption to -----

Select the correct option

☐	tautology
☒	Absurdity
☐	contingency
☐	None of these.

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Question # 4 of 10 (Start time: 07:02:58 PM, 20 January 2023)

Total Marks: 1

The sum of two irrational numbers in general

Select the correct option

☒	is always an irrational number
☐	none of these
☐	may or may not be an irrational number
☐	is always a rational number

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Question # 5 of 10 (Start time: 07:04:23 PM, 20 January 2023) Total Marks: 1

'Reductio ad absurdum' is another name of -----

Select the correct option

- | | |
|----------------------------------|-------------------------|
| ☐ | None of these. |
| ☒ | proof by contradiction |
| ☐ | proof by contrapositive |
| ☐ | Direct Method of proof |

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Question # 6 of 10 (Start time: 07:05:38 PM, 20 January 2023)

Total Marks: 1

The statement $3^n < n!$ is true when _____.

Select the correct option

 Reload Math Equations

$$n > 6$$

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$n = 2$

$$n = 4$$

$n = 6$

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Question # 8 of 10 (Start time: 07:07:26 PM, 20 January 2023)

Total Marks: 1

If the sum of two integers is even then their difference would be

Select the correct option

even



odd



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Question # 9 of 10 (Start time: 07:08:20 PM, 20 January 2023)

Total Marks: 1

The sum of two odd integers is

Select the correct option

even



odd



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