VIRTUAL UNIVERSITY OF PAKISTAN

A Good Education is a Foundation For a Better Future
CORRECT ANSWER SOLVED BY HADI
EMAIL:hadirajputofficial@gmail.com
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TEAM HADI(VU LAHORE)

MID TERM PAST PAPER

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MADE AND SOLVED BY HADI

WARNING: Team HADI is not responsible for any mistake or wrong answer. All students reading and using this document may check and confirm the answers at their own.

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Best of luck!

PAST PAPER

MTH501:Grand Quiz

Quiz Start Time: 07:47 PM, 02 January 2021

Question # 22 of 30 (Start time: 08:13:10 PM, 02 January 2021)

Total Marks: 1

If a system of equations is solved using the Gauss-Seidel method, then which of the following is the most appropriate answer about the matrix M that is derived from the coefficient matrix ?

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Select the correct option

- All of its entries on the diagonal must be zero.
- All of its entries below the diagonal must be zero.
- All of its entries above the diagonal must be zero.
- All of its entries below and above the diagonal must be zero.

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MTH501:Grand Quiz

Quiz Start Time: 07:47 PM, 02 January 2021

Question # 13 of 30 (Start time: 08:06:27 PM, 02 January 2021)

Total Marks: 1

Cranmer's Rule is not suitable for which type of problems?

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Select the correct option

- Small systems with 4 unknowns
- Systems with 2 unknowns
- Large systems
- Systems with 3 unknowns

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MTH501:Grand Quiz

Quiz Start Time: 07:47 PM, 02 January 2021

Question # 25 of 30 (Start time: 08:15:50 PM, 02 January 2021)

Total Marks: 1

Which of the following method is used for solving the system of linear equation?

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Select the correct option

- Runge-Kutta Method
- Gauss-Seidal Method
- Simpson's Rule
- Newton Raphson Method

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MTH501:Grand Quiz

Quiz Start Time: 07:47 PM, 02 January 202

Question # 15 of 30 (Start time: 08:08:47 PM, 02 January 2021)

Total Marks:

Algebra is the study of the properties of operations on ------

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Select the correct option

- (●) Numbers
- ( ) Variables

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MTH501:Grand Quiz

Quiz Start Time: 07:47 PM, 02 January 2021

Question # 3 of 30 (Start time: 07:49:26 PM, 02 January 2021)

Total Marks: 1

Let W = {(x, y) such that x, y in R and y = 0}. Is W a vector subspace of plane.

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Select the correct option

- (●) YES
- ( ) NO

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sec(s)

MTH501:Grand Quiz

Quiz Start Time: 07:47 PM, 02 January 2021

Question # 24 of 30 (Start time: 08:14:58 PM, 02 January 2021)

Total Marks: 1

Two vectors are linearly dependent if and only if they lie_____

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Select the correct option

- on a line parallel to x-axis
- on the same line through origin

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MTH501:Grand Quiz

Quiz Start Time: 07:47 PM, 02 January 2021

Question # 29 of 30 (Start time: 08:17:32 PM, 02 January 2021)

Total Marks: 1

The Gauss-Seidel method is applicable to symmetric ----------definite matrices

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Select the correct option

- (●) Positive
- ( ) Negative
- ( ) Zero
- ( ) Equal

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MTH501:Grand Quiz

Quiz Start Time: 07:47 PM, 02 January 2021

Question # 25 of 30 (Start time: 08:15:50 PM, 02 January 2021)

Total Marks: 1

Which of the following method is used for solving the system of linear equation?

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Select the correct option

- Runge-Kutta Method
- Gauss-Seidal Method
- Simpson's Rule
- Newton Raphson Method

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MTH501:Grand Quiz

Quiz Start Time: 07:47 PM, 02 January 2021

Question # 26 of 30 (Start time: 08:16:30 PM, 02 January 2021)

Total Marks: 1

A system of linear equations is said to be homogeneous if it can be written in the form _____.

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Select the correct option

- AX = B
- AX = 0

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MTH501:Grand Quiz

Quiz Start Time: 07:47 PM, 02 January 202

Question # 6 of 30 (Start time: 07:58:44 PM, 02 January 2021)

Total Marks:

A partitioned matrix 'A' is said to be block diagonal if the matrices on the main diagonal are square and all other position matrices are _____.

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Select the correct option

- (●) zero
- ( ) unit
- ( ) nonzero symmetric
- ( ) nonzero skew symmetric

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MTH501:Grand Quiz

Quiz Start Time: 07:47 PM, 02 January 202

Question # 15 of 30 (Start time: 08:08:47 PM, 02 January 2021)

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Algebra is the study of the properties of operations on ------

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Select the correct option

- (●) Numbers
- ( ) Variables

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MTH501:Grand Quiz

Quiz Start Time: 07:47 PM, 02 January 2021

Question # 23 of 30 (Start time: 08:14:08 PM, 02 January 2021)

Total Marks: 1

The Invertible Matrix Theorem applies only to _____ matrices.

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Select the correct option

- rectangular
- square
- identity
- scalar

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Quiz Start Time: 07:47 PM, 02 January 2021

Question # 3 of 30 (Start time: 07:49:26 PM, 02 January 2021)

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Select the correct option

- (●) YES
- ( ) NO

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MTH501:Grand Quiz

Quiz Start Time: 07:47 PM, 02 January 2021

Question # 8 of 30 (Start time: 08:00:02 PM, 02 January 2021) **Total Marks: 1**

A transformation $T : R^n \rightarrow R^m$ Is a rule that assigns to each vector x in R^n , an image vector T(x) in R^m. The set R^n is called the_____ , and R^m is called the _____.

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Select the correct option

Reload Math Equations

- (●) domain of T, co-domain of T
- ( ) co-domain of T, domain of T

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MTH501:Grand Quiz

Quiz Start Time: 07:47 PM, 02 January 2021

Question # 9 of 30 (Start time: 08:01:26 PM, 02 January 2021)

Total Marks: 1

If one row of A is multiplied by k to produce B, then which of the following condition is true?

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Select the correct option

- det(AB) = (detA)(detB)
- detB = k detA
- detB = - detA
- detB = detA

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