



MTH603 QUIZ(1)

Lecture: 1 to 10

RIZ MUGHAL SQA ENGINEER:

I'm providing 100% correct quiz solution.

You can visit my YouTube channel for more quiz solution,
also final year project including project assignments, and

viya
Riz Mughal

YOUTUBE:

<https://www.youtube.com/channel/UCINsFwDiB62SValCcPDZbRQ/playlists>

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MTH603:Quiz 1

Question # 1 of 10 (Start time: 12:34:52 AM, 21 May 2021)

The 2nd row of the augmented matrix of the system of linear equations is:

$$2x+z=4$$

$$x-y+z=-3$$

$$-y+z=-5$$

Select the correct option

- | | |
|----------------------------------|----------------|
| ☐ | 1,-1, 0 and -3 |
| ☒ | 1,-1, 1 and -3 |
| ☐ | 1,-1, 0 and 3 |
| ☐ | 1,-1, 0 and -5 |
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Question # 2 of 10 (Start time: 12:35:04 AM, 21 May 2021)

$$3x^4 - 2x^2 - 24 = 0 \text{ has at least } \text{---} \text{---} \text{---} \text{---} \text{ real root(s)?}$$

Select the correct option

 Reload

☐	1
☒	2
☐	3
☐	4



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Question # 3 of 10 (Start time: 12:35:16 AM, 21 May 2021)

The linear equation: $0x+0y=2$ has ----- solution/solutions.

Select the correct option

☐	unique
☒	no solution
☐	infinite many
☐	finite many

Question # 4 of 10 (Start time: 12:35:31 AM, 21 May 2021)

If the determinant of a matrix A is equal to zero then the system of equations will have.....

Select the correct option

☐	unique solution
☐	no solution
☐	infinitely many solution
☒	no solution or infinitely many solution

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Question # 5 of 10 (Start time: 12:35:45 AM, 21 May 2021)

The linear equation $2x+0y-2=0$ has----- solution(s).

Select the correct option

☐	unique
☐	no solution
☒	infinite
☐	finite

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Question # 6 of 10 (Start time: 12:36:00 AM, 21 May 2021)

The number system that has a base 8 is called...system.

Select the correct option

☐	Decimal
☒	Octal
☐	Binary
☐	Hexadecimal

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Question # 7 of 10 (Start time: 12:36:10 AM, 21 May 2021)

Under iterative methods, the initial approximate solution is assumed to be.....

Select the correct option

☒	Known
☐	Unknown
☐	Found
☐	None of the given choices

Question # 8 of 10 (Start time: 12:36:24 AM, 21 May 2021)

Total Marks:

Non-convergence in Newton-Raphson method can occur if the initial value is selected such that the derivative of the function equals to

Select the correct option

☐	Infinity	//
☒	Zero	//
☐	One	//
☐	Negative infinity	//

Question # 9 of 10 (Start time: 12:36:40 AM, 21 May 2021)

An augmented matrix may also be used to find the inverse of a matrix by combining it with the matrix.

Select the correct option

☐	Inverse
☐	Square
☒	Identity
☐	None of the given choices

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Question # 10 of 10 (Start time: 12:36:51 AM, 21 May 2021)

Which method requires three starting points?

Select the correct option

☐	Bisection method
☐	Secant method
☒	Muller method
☐	Newton-Raphson method

2nd account

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Question # 1 of 10 (Start time: 12:56:27 AM, 21 May 2021)

There are ... types of error.

Select the correct option

☐	2
☒	3
☐	4
☐	5



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Question # 2 of 10 (Start time: 12:56:45 AM, 21 May 2021)

The linear equation: $0x+0y=2$ has ----- solution/solutions.

Select the correct option

☐	unique
☒	no solution
☐	infinite many
☐	finite many

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Question # 3 of 10 (Start time: 12:56:56 AM, 21 May 2021)

The first root of a quadratic equation is $-\sqrt{3}-\sqrt{11}i$, then the other root will be

Select the correct option

- | | |
|----------------------------------|------------------------|
| ☐ | $-\sqrt{3}-\sqrt{11}i$ |
| ☐ | $\sqrt{3}-\sqrt{11}i$ |
| ☒ | $-\sqrt{3}+\sqrt{11}i$ |
| ☐ | $\sqrt{3}+\sqrt{11}i$ |

Question # 4 of 10 (Start time: 12:57:09 AM, 21 May 2021)

If the pivot element happens to be zero, then the i -th column elements are searched for the numerically element.

Select the correct option

☐	Smallest
☒	Largest

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Question # 5 of 10 (Start time: 12:57:24 AM, 21 May 2021)

Total Marks:

While solving a system of linear equations by Gauss Jordan Method, after all the elementary row operations if there lefts also zeros on the main diagonal then which of the is true about the system?

Select the correct option

- | | | |
|----------------------------------|--|----|
| ☐ | System may have unique solutions | // |
| ☒ | System has no solution | // |
| ☐ | System may have multiple numbers of finite solutions | // |
| ☐ | System may have infinite many solutions | // |

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Question # 6 of 10 (Start time: 12:57:37 AM, 21 May 2021)

To

In full pivoting we interchange rows and columns such that the.....element in the matrix of the variables also get changed.

Select the correct option

☐	Smallest
☐	Middle
☒	Largest
☐	None of the given choices

Question # 7 of 10 (Start time: 12:57:51 AM, 21 May 2021)

$3x^4 - 2x^2 - 24 = 0$ has at least --- real root(s)?

Select the correct option

☐	1
☒	2
☐	3
☐	4

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Question # 8 of 10 (Start time: 12:58:06 AM, 21 May 2021)

Total Marks: 10

While solving a system of linear equations by Gauss Jordan Method, in which of the following case the partial pivoting is essential?

Select the correct option

- ☐ When the upper triangular entries are zero
- ☐ When lower triangular entries are zero
- ☐ When diagonal entries are zeros
- ☒ When pivots are zero

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Question # 9 of 10 (Start time: 12:58:20 AM, 21 May 2021)

A series $16+8+4+2+1$ is replaced by the series $16+8+4+2$, then it is called

Select the correct option

- | | |
|----------------------------------|------------------------|
| ☐ | Inherent error |
| ☐ | Local round off error |
| ☒ | Local Truncation error |
| ☐ | Typing error |
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Question # 10 of 10 (Start time: 12:58:32 AM, 21 May 2021)

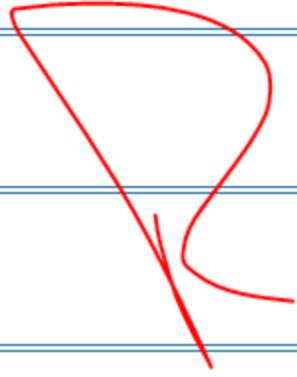
The 2nd row of the augmented matrix of the system of linear equations is:

$$2x+z=4$$

$$x-y+z=-3$$

$$-y+z=-5$$

Select the correct option

- | | |
|----------------------------------|----------------|
| ☐ | 1,-1, 0 and -3 |
| ☒ | 1,-1, 1 and -3 |
| ☐ | 1,-1, 0 and 3 |
| ☐ | 1,-1, 0 and -5 |
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3rd account

Question # 1 of 10 (Start time: 10:36:07 AM, 21 May 2021)

The difference between the rounded-off amount and the actual value is called

Select the correct option

- | | |
|----------------------------------|-------------------|
| ☐ | Estimated value |
| ☐ | Inherent value |
| ☐ | Rounded off value |
| ☒ | Rounding error |
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Question # 2 of 10 (Start time: 10:36:26 AM, 21 May 2021)

The number system that has a base 2 is called...system.

Select the correct option

☐	Octal
☒	Binary
☐	Decimal
☐	Hexadecimal

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Question # 3 of 10 (Start time: 10:36:41 AM, 21 May 2021)

The number system that is used in our daily life is called...system.

Select the correct option

☐	Hexadecimal
☐	Binary
☐	Octal
☒	Decimal

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Question # 4 of 10 (Start time: 10:36:58 AM, 21 May 2021)

In method, the elements above and below the diagonal are simultaneously made zero.

Select the correct option

- | | |
|----------------------------------|--------------------------|
| ☐ | Jacobi's |
| ☐ | Gauss-Seidel |
| ☒ | Gauss-Jordan Elimination |
| ☐ | Relaxation |

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Question # 5 of 10 (Start time: 10:37:26 AM, 21 May 2021)

The linear equation $2x+0y-2=0$ has----- solution(s).

Select the correct option

☐	unique
☐	no solution
☒	infinite
☐	finite

Question # 6 of 10 (Start time: 10:37:46 AM, 21 May 2021)

 $3x^4 - 2x^2 - 24 = 0$ has at least --- real root(s)?

Select the correct option



1



2

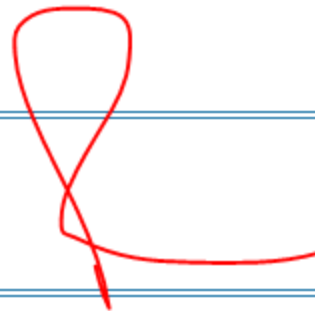


3



4

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Question # 7 of 10 (Start time: 10:38:02 AM, 21 May 2021)

Total Marks:

For a system of linear equations, the corresponding coefficient matrix has the value of determinant; $|A| = -3$, then which of the following is true?

Select the correct option

- | | | |
|----------------------------------|--|----|
| ☒ | The system has unique solution | // |
| ☐ | The system has finite multiple solutions | // |
| ☐ | The system has infinite may solutions | // |
| ☐ | The system has no solution | // |
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Question # 8 of 10 (Start time: 10:38:17 AM, 21 May 2021)

Total Marks: 1

If the order of coefficient matrix corresponding to system of linear equations is 3×3 then which of the following will be the orders of its decomposed matrices; 'L' and 'U'?

Select the correct option

- | | | |
|----------------------------------|---|----|
| ☐ | Order of 'L' = 3×1 , Order of 'U' = 1×3 | // |
| ☐ | Order of 'L' = 3×2 , Order of 'U' = 2×3 | // |
| ☒ | Order of 'L' = 3×3 , Order of 'U' = 3×3 | // |
| ☐ | Order of 'L' = 3×4 , Order of 'U' = 4×3 | // |
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Question # 9 of 10 (Start time: 10:38:34 AM, 21 May 2021)

If there are three equations in two variables, then which of the following is true?

Select the correct option

- | | |
|----------------------------------|--|
| ☐ | System may have unique solutions |
| ☐ | System may have multiple numbers of finite solutions |
| ☐ | System may have infinite many solutions |
| ☒ | All above possibilities exist depends on the coefficients of variables |

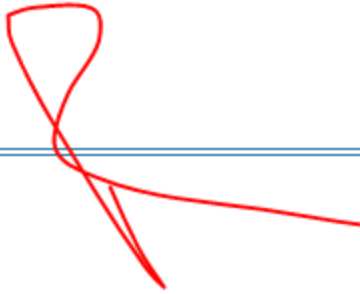
Question # 10 of 10 (Start time: 10:38:53 AM, 21 May 2021)

If the determinant of a matrix A is not equal to zero then the system of equations will have.....

Select the correct option

☒	a unique solution
☐	many solutions
☐	infinite many solutions
☐	None of the given choices

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Thank you for watching 😊
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rizwanqadeer848@gmail.com