| Ques | on No : 1 of 26 Marks: 1 (Budgeted Time 1 Min) | |
|------|---|--------|
| 7x | s an algebraic term in which 7 is a and x is a | A |
| Answ | er (Please select your correct option) | 100.00 |
| 0 | erm, expression | |
| С | Correct Answer Solved By Hadi usmanraj2@gmail.com 03228043306 | |
| С | variable, coefficient | |
| c | numerical, alphabet Made By: Wagar Siddh | u |

| Question No : 2 of 26 Marks: 1 (Budgeted Time 1 Min) |) 🖃 |
|--|-----|
| Which of the following is the pivot element in the second row of the matrix? \[\begin{pmatrix} 1 & 2 & 3 & 4 & 8 \\ 0 & 0 & -3 & 5 & 1 \\ 0 & 0 & 0 & 1 & 2 \\ 0 & 0 & 0 & 0 & -3 \end{pmatrix} \] | • |
| Answer (Please select your correct option) | |
| | |
| | |
| Correct Answer Solved By Hadi usmanra[20@gmail.com 03228043306 | |
| made By: Waqar Siddl | hu |

| Que | estion No : 3 of 26 Marks: 1 (Budgeted Time 1 Min) | |
|-----|---|---|
| W | hich of the following is true for the matrix $ \begin{pmatrix} 1 & 3 & 2 \\ 0 & 1 & -1 \\ 0 & 0 & 1 \end{pmatrix} ? $ | A |
| | | ¥ |
| Ans | wer (Please select your correct option) | |
| 0 | It is an identity matrix. | |
| 0 | It is in reduced echelon form. | |
| c | It is in echelon form. Correct Answer Solved By Hadi usmanraj 20@gmail.com 03228043306 | |
| | It is a rectangular matrix. | |
| 0 | Made By: Waqar Siddh | U |

| Question No : 4 of 26 | Marks: 1 (Budgeted Time 1 Min) |
|--|--|
| If reduced echelon form of a linear system is $\begin{bmatrix} 1 & 0 & 5 & 5 \\ 0 & 1 & 1 & 6 \\ 0 & 0 & 0 & 0 \end{bmatrix}$ when free variable $x_3 = 0$, then which of the following is true for it? | E |
| | ▼ |
| Answer (Please select your correct option) | |
| The particular solution is (0, 5, 6). | |
| The particular solution is (6, 5, 0). | |
| The particular solution is (5, 6, 0). | Correct Answer Solved By Hadi usmanraj20@gmail.com 03228043306 |
| The particular solution is (0, 6, 5). Made B | y: Waqar Siddhu |

| • | Question No : 5 of 26 | Marks: 1 (Budgeted Time 1 Min) |
|---|---|--------------------------------|
| | If $\overset{1}{b} = c_1\overset{1}{u_1} + c_2\overset{1}{u_2}$ and $\overset{1}{a} = d_1\overset{1}{u_1} + d_2\overset{1}{u_2}$ where c_1, c_2, d_1 and d_2 are scalars, then which of the following options is correct? | <u> </u> |
| | | ₩ |
| | Answer (Please select your correct option) | |
| | $C \qquad \text{Only } \stackrel{1}{b} \in Span(\stackrel{1}{u}_1, \stackrel{1}{u}_2).$ | |
| | Only $\overset{\mathrm{I}}{a} \in Span(\overset{\mathrm{I}}{u}_{1},\overset{\mathrm{I}}{u}_{2})$. | |
| | Both $\overset{\tau}{a},\overset{t}{b}\in Span(\overset{\tau}{u}_1,\overset{t}{u}_2)$. | |
| | Both $a,b \notin Span(u_1,u_2)$. Correct Answer Solved By Hadi usmanraj 20@mail.com 03228043306 Made By: U | haqar Siddhu |

| Question No : 6 of 26 | Marks: 1 (Budgeted Time 1 Min) | |
|--|--|---|
| If a homogeneous system $Ax = 0$ has a trivial solution, then which of the following is (are) the value(s) of the vector x ? | | Α |
| | | V |
| Answer (Please select your correct option) | | |
| c ⁻¹ | | |
| | Correct Answer Solved By Hadi usmanraj20@gmail.com 03228043306 | |
| | | |
| ° 2 Made | By: Waqar Siddh | U |

| Q | luestion No : 7 of 26 | Marks: 1 (Budgeted Time 1 Min) | |
|----|--|--------------------------------|---|
| I | If a homogeneous system $Ax = 0$ has non-trivial solution, then which of the following is true for the system? | | |
| Aı | nswer (Please select your correct option) | | |
| | The system has at least no free variable. | | |
| | The system has at least one free variable. Correct Answer Solved By Hausmanraj 20@gmail.com 03228043306 | di | |
| | The system has at least two free variables. | | |
| | The system has at least three free variables. Made By: W | lagar Siddh | u |

| Question No: 8 | of 26 Marks: 1 (Budgeted Time 1 Min) |
|---|--|
| If $x = \begin{bmatrix} x_1 \\ x_2 \\ x_3 \end{bmatrix} = \begin{bmatrix} x_1 \\ x_3 \end{bmatrix}$ | $\begin{bmatrix} -1 + 6x_3 \\ 3 \\ 0 \end{bmatrix} = \begin{bmatrix} -1 \\ 3 \\ 0 \end{bmatrix} + x_3 \begin{bmatrix} 6 \\ 0 \\ 1 \end{bmatrix}$ be the general solution of $Ax = b$, then which of the following is parametric equation for the given solution? |
| | y the state of the |
| Answer (Please | e select your correct option) |
| C p = s x + | tu+v |
| C = p + t | Correct Answer Solved By Hadi usmanraj30@gmail.com 03228043306 |
| v = p + t | • |
| C = p + 1 | made By: Waqar Siddhu |

| Ques | tion No : 9 of 26 | Marks: 1 (Budgeted Time 1 Min) | |
|-------|--|--------------------------------|-----|
| If th | ne equation $T(\dot{x})=0$ has only the trivial solution, then which of the following is true for the linear transformation $T:R^{\prime 2}\to R^{\prime 2}$? | | 4 |
| Ansv | ver (Please select your correct option) | | |
| О | T is one-to-one. Correct Answer Solved By Had usmarnj20@gmail.com 03228043306 | í | |
| С | T is onto. | | |
| С | T is a rotation. | | |
| С | T is a reflection. Made By: W | lagar Siddl | 17/ |

| Questi | on No : 10 of 26 | Marks: 1 (Budgete | d Time 1 Min) |
|---------|---|-------------------|-------------------|
| If line | var transformation $T: \mathbb{R}^n 	o \mathbb{R}^m$ is transformed into a matrix A , then which of the following is the order of A ? | | _ |
| | | | F |
| Answe | r (Please select your correct option) | | |
| 0 | n 	imes m | | |
| 0 | n 	imes m | | |
| C | ™×n Correct Answer Solved By Hadi usmanraj20@gmail.com 03228043306 | | |
| 0 | n×n Marida Bara | 715 at an at up (| 254 5 16-5 |
| | made By: | wagar | Juanu |

| Quest | on No : 11 of 26 | Marks: 1 (Budgeted Time 1 Min) |
|-------|---|--|
| If A | = A^{t} (where A is a square matrix) , then which of the following is the most appropriate option for A ? | |
| | | v |
| Answe | er (Please select your correct option) | |
| c | A is an invertible matrix. | |
| c | A is a singular matrix. | |
| o | A is a symmetric matrix. | Correct Answer Solved By Hadi usmanraj20@gmail.com 03228043306 |
| o | A is a scalar matrix. | made By: Wagar Siddhu |

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| Question No : 12 of 26 | Marks: 1 (Budgeted Time 1 Min) |
|--|--|
| If A is an invertible matrix , then which of the following is true ? | |
| Answer (Please select your correct option) | |
| $C (A^{-1})^{-1} = A$ | Correct Answer Solved By Hadi usmanraj?@@gmail.com 03228043306 |
| $C (A^{-1})^{-1} = \frac{1}{A}$ | |
| $C (A^{-1})^{-1} = A^{-1}$ | |
| $C = (A^{-1})^{-1} = \det(A)$ | made By: Waqar Siddhu |

| Question No : 13 of 26 | Marks: 1 (Budgeted Time 1 Min) |
|---|--|
| If $A = \begin{bmatrix} 4 & -1 \\ 5 & 3 \end{bmatrix}$, then which of the following is the value of $det(A)$? | |
| | * |
| Answer (Please select your correct option) | |
| c 7 | |
| c -17 | |
| c 17 | Correct Answer Solved By Hadi usmanraj20@gmail.com 03228043306 |
| ° II Made | By: Waqar Siddhu |

| Question No : 14 of 26 | Marks: 1 (Budgeted Time 1 Min) |
|--|--|
| If a system of equations is solved using the Jacobi's method, then which of the following is NOT true about the matrix M that is derived from the coefficien | at matrix ? |
| | ₹ |
| Answer (Please select your correct option) | |
| All of its entries below the diagonal must be zero . | |
| All of its entries above the diagonal must be zero . | |
| It may or may not be invertible . | Correct Answer Solved By Hadi usmanraj20@gmail.com 03228043306 |
| It is a non-singular matrix. | · Maranara Calallan |
| indae by: | : Waqar Siddhu |

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| C | Questic | on No : 15 of 26 Marks: 1 (Budgeted Time 1 Min) | |
|---|---------|---|---|
| | If the: | matrix $A = \begin{bmatrix} 5 & 4 \\ 3 & 3 \end{bmatrix}$, then which of the following is the most suitable option for it? | A |
| | | | ~ |
| Α | nswer | r (Please select your correct option) | |
| | C | t is not strictly diagonally dominant. Correct Answer Solved By Hadi usmanraj20@gmail.com 03228043306 | |
| | C | t is strictly diagonally dominant. | |
| | C | t is not diagonally dominant. | |
| | C It | t is diagonally dominant. Made By: Waqar Siddh | u |

| Que | estion No : 16 of 26 Marks: 1 (Budgeted Time 1 Min) | • |
|-----|---|-----|
| If | $A = \begin{bmatrix} 2 & 3 \\ 4 & 5 \end{bmatrix}$, then which of the following is the minor of entry a_{21} ? | 4 |
| | | V |
| Ans | swer (Please select your correct option) | |
| С | | |
| С | Correct Answer Solved By Hadi usmanraj20@gmail.com 03228043306 | |
| С | 4 | |
| С | made By: Waqar Siddle | 17I |

| Q | estion No : 17 of 26 Marks: 1 (Budgeted Time 1 Min) | |
|---|---|----------|
|] | $A = \begin{bmatrix} 4 & 5 \\ 6 & 7 \end{bmatrix}$, then which of the following is the value of C_{21} ? | <u> </u> |
| | | V |
| А | swer (Please select your correct option) | |
| | 5 | |
| | Correct Answer Solved By Hadi usmarraj20@gmail.com 03228043306 | |
| | 6 | |
| | -6 Made By: Waqar Siddh | u |

| Que | estion No : 18 of 26 Marks: 1 (Budgeted Time 1 Min) | |
|-----|--|---|
| | the determinant of the matrix $A = \begin{bmatrix} 2 & 3 & 4 \\ 1 & 2 & 2 \\ 3 & 4 & 5 \end{bmatrix}$ is -1 and the matrix B is obtained by adding 2 times of the second row in the first row of the matrix A , then which of the following is true about e matrix B ? | A |
| Ans | swer (Please select your correct option) | |
| 0 | Its determinant is -1. Correct Answer Solved By Hadi usmanraj2@gmail.com 03228043306 | |
| 0 | Its determinant is 1. | |
| 0 | Its determinant can not be evaluated. | |
| О | The information is not sufficient to calculate the determinant. Made By: Wagar Siddh | u |

| Que | stion No : 19 of 26 Marks: 1 (Budgeted Time 1 Min) | |
|-----|---|---|
| If | the matrix $A = \begin{bmatrix} 1 & 2 & 3 \\ 0 & 1 & 2 \\ 0 & 0 & 2 \end{bmatrix}$, then which of the following is true about it ? | |
| | | ¥ |
| Ans | ver (Please select your correct option) | |
| С | Its determinant is 0. | |
| С | Its determinant is 1. | |
| С | Its determinant is 2. Correct Answer Solved By Hadi usmanraj20@gmail.com 03228043306 | |
| С | Its determinant is 4. Made By: Wagar Siddh | U |

| Qu | uestion No : 20 of 26 | Marks: 1 (Budgeted Time 1 Min) | |
|-----|--|--------------------------------|---|
| If | a set $S = \{ v_1 = (1,2), v_2 = (4,8) \}$, then which of the following is the most appropriate option? | | A |
| | | | V |
| Ans | iswer (Please select your correct option) | | |
| c | It is a basis of \mathbb{R}^2 . | | |
| c | It is linearly independent. | | |
| c | It spans R^2 . | | |
| c | It is linearly dependent. Correct Answer Solved By Hadi usmanraj2@gmail.com 03228043306 Wade By: W | iaqar Siddhi | U |











