

eExam Question Bank

Coursecode:

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<input type="checkbox"/>	Question Type	Question	A	B	C	D	Answer
<input type="checkbox"/>	FBQ	<input type="text"/> theorem states that "Every square matrix satisfies its characteristics polynomial".	Cayley-Hamilton				
<input type="checkbox"/>	FBQ	$\begin{bmatrix} 0 & -1 & 3 \\ -1 & 2 & 5 \\ 3 & 5 & -4 \end{bmatrix}$ is a <input type="text"/> matrix	symmetric				
<input type="checkbox"/>	MCQ	$\forall [T(\alpha_1 u_1 + \alpha_2 u_2) = \alpha_1 T(u_1) + \alpha_2 T(u_2); \text{ for } \alpha_1, \alpha_2 \in F; \text{ and } u_1, u_2 \in U]$ then the linear transformation $T : U \rightarrow F$; is known as;	finite-dimensional	isomorphic	linear transformation	linear functional	D
<input type="checkbox"/>	MCQ	A linear transformation T on a finite-dimensional vector space V is if and only if there exists a basis of V consisting of eigenvector of T.	finite-dimensional	linear transformation	diagonalizable	transformative	C
<input type="checkbox"/>	MCQ	A matrix is a	square array of numbers arranged in rows and columns.	circular array of numbers arranged in rows and columns.	triangular array of numbers arranged in rows and columns.	rectangular array of numbers arranged in rows and columns.	D
<input type="checkbox"/>	FBQ	A matrix whose determinant is zero is called <input type="text"/> matrix	singular				
<input type="checkbox"/>	FBQ	A square matrix A such that $a_{ij} = 0$ for all $i > j$; is called <input type="text"/>	upper triangular				
<input type="checkbox"/>	FBQ	A square matrix that is equal to the negative of the transpose of its conjugate is known as <input type="text"/>	skew-Hermitian	skew Hermitian			
<input type="checkbox"/>	MCQ	A square matrix that is the same as the transpose of its conjugate is known as	Singular matrix	Non-singular matrix	Hermitian	skew-Hermitian	C
<input type="checkbox"/>	MCQ	A square matrix whose tranpose is equal to the negative of the matrix itself is known as	skew-symmetric	asymmetric	symmetric	negative square	A
<input type="checkbox"/>	FBQ	A square matrix whose tranpose is equal to the negative of the matrix itself is known as <input type="text"/>	skew-symmetric				
<input type="checkbox"/>	MCQ	An m x n matrix A is called a row reduced echelon matrix if	the non-zero rows come before the rows	In each non-zero row, the first non-zero entry is one	the first non-zero entry in every non-zero row (after the first row) is to the right of the first non-zero entry in the preceding row	all of the options	D

<input type="checkbox"/>							
<input type="checkbox"/>	MCQ	Every matrix can be reduced to a row-reduced echelon matrix by a of elementary row operations.	finite sequence	infinite sequence	sequence	series	A
<input type="checkbox"/>	FBQ	Every vector space is isomorphic to its dual.	second	2nd			
<input type="checkbox"/>	MCQ	Given that U and V are vector spaces over a field F . $[T : U \rightarrow V]$ be a linear transformation, then the set $\{x \in U \mid T(x) = 0\}$ is called the	transformation	space	kernel of T	range of T	C
<input type="checkbox"/>	MCQ	Let U and V be finite-dimensional vector spaces over F and $[T : U \rightarrow V]$ be a linear transformation, then $\text{rank}(T) + \text{nullity}(T) = \dots$	$\dim(U)$	$\ker(U)$	$\text{Field}(U)$	zero	A
<input type="checkbox"/>	MCQ	Let U and V be vector spaces over a field F and $[T : U \rightarrow V]$ be a linear transformation, then Range of T is a subspace of	T	U	V	all of the above	C
<input type="checkbox"/>	MCQ	Let U and V be vector spaces over a field F and $\dim U = n$. Let $[T : U \rightarrow V]$ be a linear operator, then $\text{rank}(T) + \text{nullity}(T) = \dots$	n	U	V	nU	A
<input type="checkbox"/>	MCQ	Let U and V be vector spaces over a field F . A linear transformation $[T : U \rightarrow V]$ that is one-to-one is called	surjective	injective	subjective	objective	B
<input type="checkbox"/>	MCQ	Let U and V be vector spaces over a field F . Let $[T : U \rightarrow V]$ be a one-one and onto linear transformation, then T is called between U and V	monomorphism	isomorphism	dual	kernel	B
<input type="checkbox"/>	MCQ	Let U, V be vector spaces over a field F of dimensions m and n respectively, then $L(U, V)$ is a vector space of dimension	mn	$m+n$	m	n	A
<input type="checkbox"/>	FBQ	The of a matrix is determined by the number of its rows and columns	dimension	order			
<input type="checkbox"/>	FBQ	The determinant of $\begin{bmatrix} 1 & -1 & 2 \\ -2 & -3 & 2 \\ 3 & 0 & 4 \end{bmatrix}$ is	-8	minus eight			
<input type="checkbox"/>	FBQ	The determinant of $\begin{bmatrix} 1 & 2 & 0 \\ 0 & 1 & 0 \\ 7 & -4 & 3 \end{bmatrix}$ is	3	three			
<input type="checkbox"/>	MCQ	The determinant of $\begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ 7 & 8 & 9 \end{bmatrix}$ is	0	1	2	3	A
<input type="checkbox"/>	MCQ	The determinant of $\begin{bmatrix} 2 & 3 \\ 5 & 6 \\ 1 & 1 \end{bmatrix}$ is;	zero	1	-1	No determinant	D
<input type="checkbox"/>	MCQ	The determinant of $\begin{bmatrix} x & -2 & 1 \\ x & 5 & 2 \\ x & 1 & -2 \end{bmatrix}$ is;	$-2x^3 + x^2 + 24x + 15$	$[x^2 - 15x + 5]$	$[4x^2 + 15x - 5]$	$[15x - 2]$	C
<input type="checkbox"/>	FBQ	The determinant rank of an $m \times n$ matrix A is equal to the of A .	rank				

<input type="checkbox"/>								
<input type="checkbox"/>	FBQ	The determinant rank of the determinant of $\begin{bmatrix} 1 & 4 \\ 2 & 5 \\ 3 & 6 \end{bmatrix}$ is <input type="text"/>	2	two				
<input type="checkbox"/>	MCQ	The dimension of the matrix $\begin{bmatrix} 1 & 2 & 5 \\ 3 & 2 & 8 \\ 1 & 0 & -5 \\ -2 & 1 & 0 \end{bmatrix}$; is	4 by 3	3 by 4	3 by 3	12	A	
<input type="checkbox"/>	FBQ	The dimension of the range of T is the same as the <input type="text"/> of T	rank					
<input type="checkbox"/>	FBQ	The dimension of the kernel of T is the same as the <input type="text"/> of T	nullity					
<input type="checkbox"/>	FBQ	The space L (U,F) is the <input type="text"/> of U given that U is a vector space over F	dual					
<input type="checkbox"/>	MCQ	The of a row-reduced echelon matrix is equal to the number of its non-zero rows	row	rank	column	kernel	B	
<input type="checkbox"/>	MCQ is a square matrix A such that; $a_{ij} = 0$; $\forall i > j$	lower traingular	upper traingular	strictly lower traingular	strictly upper traingular	B	

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