2023

(LINEAR ALGEBRA)

Answer All questions as directed.

The figures in the margin indicate full marks for the questions

Q.1. Answer All the following questions. [1 X 12=12]

1.1. Every vector space contains a zero vector. (True/False)

1.2. If f is a polynomial of degree n ad α is a non-zero scalar then αf is a polynomial of degree n. (True/False)

1.3. The empty set is a subspace of every vector space. (True/False)

1.4. A $n \times n$ diagonal matrix can never have more than n non-zero entries. (True/False)

1.5. Any set containing the zero vector is linearly independent. (True/False)

1.6. The vector space {0} has dimension _____.

1.7. The dimension of $M_{m \times n}^{(F)}$ is $m + n$. (True/False)

1.8. The rank of a $n \times n$ matrix is at most n. (True/False)

1.9. The rank of a matrix is equal to the maximum number of linearly independent rows in the matrix. (True/False)

1.10. Any system of linear equation has at least one solution. (True/False)

1.11. The zero vector is a linear combination of any nonempty set of vectors. (True/False)

1.12. If two rows of a square matrix A are identical then det(A) = 0 . (True/False)

Q.2. Answer Any *EIGHT* of the following questions. [2X8=16]

2.1. Find the transpose of the matrix $A = \begin{bmatrix} -2 & 5 & 1 & 4 \\ 7 & 0 & 1 & 6 \end{bmatrix}$.

2.2. Show that set $s = \{(1,1,0)(1,0,1)(0,1,1)\}$ generates R^3.

2.3. Show that $\left\{ \begin{pmatrix} 1 & -3 \\ -2 & 4 \end{pmatrix}, \begin{pmatrix} -2 & 6 \\ 4 & -8 \end{pmatrix} \right\}$ in $M_{2 \times 2}^{(R)}$ is linearly independent or not.

2.4. If $T : R^2 \rightarrow R^2$ is defined by $T(a_1, a_2) = (a_1, a^2_1)$ then show that T is linear or not.

2.5. Find the rank of the matrix $\begin{pmatrix} 1 & 0 & 2 \\ 1 & 1 & 4 \end{pmatrix}$

2.6. Find the characteristic polynomial of the matrix $A = \begin{pmatrix} 1 & 1 \\ 1 & 1 \end{pmatrix}$

2.7. Find the eigen value of the matrix $\begin{pmatrix} 1 & 1 \\ 4 & 1 \end{pmatrix}$

2.8. Define orthogonal complement.

2.9. If V be an inner product space over F then prove that $\|x\| = 0$ iff $x = 0$.

2.10. Test the matrix A for diagonalizability $A = \begin{pmatrix} 1 & 4 \\ 3 & 2 \end{pmatrix}$

P.T.O

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SA Adler

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