

(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 and 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 $T(a_1, a_2) = (a_1, a_2^2)$ 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 $A = \begin{pmatrix} 1 & 4 \\ 3 & 2 \end{pmatrix}$.

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