(i) If $(\bar{A})' = -A$ then A is called

(a) Symmetric matrix   (b) Skew symmetric matrix   (c) Hermitian matrix   (d) Skew Hermitian matrix

(ii) If W is a linear subspace of V then

(a) $\dim(W) \leq \dim(V)$ (b) $\dim(W) \geq \dim(V)$ (c) $\dim(W) = \dim(V)$ (d) None of these

(iii) A set of linear equations is represented by the matrix equation $Ax = b$. The necessary condition for the existence of a solution for this system is

(a) A must be invertible   (b) b must be linearly depended on the columns of A   (c) b must be linearly independent on the columns of A   (d) none of these

(iv) A unit vector orthogonal to both $(1, 1, 2)$ and $(0, 1, 3)$ in R^3 is ----------

(a) $\left(\dfrac{1}{\sqrt{11}}, \dfrac{-3}{\sqrt{11}}, \dfrac{1}{\sqrt{11}}\right)$ (b) $\left(\dfrac{-1}{\sqrt{11}}, \dfrac{3}{\sqrt{11}}, \dfrac{1}{\sqrt{11}}\right)$ (c) $\left(\dfrac{2}{\sqrt{11}}, \dfrac{-3}{\sqrt{11}}, \dfrac{-1}{\sqrt{11}}\right)$ (d) $\left(\dfrac{-1}{\sqrt{11}}, \dfrac{-3}{\sqrt{11}}, \dfrac{1}{\sqrt{11}}\right)$

(v) The characteristic polynomial of the matrix $\begin{pmatrix} 2 & 0 \\ 0 & 0 \end{pmatrix}$ is.................

(a) $\dim(W) = \dim(V)$ (b) $p(\lambda) = (2 - \lambda)(3 - \lambda)$ (c) $p(\lambda) = 0$ (d) None of these

(vi) The property $\forall\, a, b \in R$ then $a + b = b + a = b \in R$ then a is called

(a) Identity   (b) Inverse   (c) Conjugate   (d) None of these

(vii) The subspace of R^n spanned by the vector (a, b, c) is ----------

(a) $x = t, y = bt, z = ct$ (b) $x = -at, y = -bt, z = -ct$ (c) $x = at, y = bt, z = ct$ (d) None of these

(viii) Let R^3 be the vector space of all ordered triples of real numbers. Then the transformation $T : R^3 \rightarrow R^3$ defined by $T(x,y,z) = (x,y,z)$ is

(a) Identity   (b) Not Linear   (c) Rational   (d) None of these

(ix) A linear transformation T that is both one-one and onto is has Ker(T)

(a) 0   (b) 1   (c) 2   (d) None of these

(x) Let V be vector space of finite dimension n. Then any $n+1$ or more vectors in V is ----------

(a) linearly dependent   (b) linearly independent   (c) both (a) and (b)   (d) none of these.

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