

(i) If  $(\bar{A})^t = -A$  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)  $\left(\frac{1}{\sqrt{11}}, \frac{-3}{\sqrt{11}}, \frac{1}{\sqrt{11}}\right)$  (b)  $\left(\frac{-1}{\sqrt{11}}, \frac{3}{\sqrt{11}}, \frac{1}{\sqrt{11}}\right)$  (c)  $\left(\frac{2}{\sqrt{11}}, \frac{-3}{\sqrt{11}}, \frac{-1}{\sqrt{11}}\right)$  (d)  $\left(\frac{-1}{\sqrt{11}}, \frac{-3}{\sqrt{11}}, \frac{1}{\sqrt{11}}\right)$

(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  $R^3$  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  $\text{Ker}(T)$

- (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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