- (i) If (A)' = -A then A is called
   (a) Symmetric matrix
   (b) Skew symmetric matrix
   (c) Hermitian matrix
   (ii) If W is a linear subspace of V then
   (a) dim(W) ≤ dim(V)
   (b) dim(W) ≥ 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
- - (a)  $\dim(W) = \dim(V)$  (b)  $p(\lambda) = (2 \lambda)(3 \lambda)$  (c)  $p(\lambda) = 0$  (d) None of these
- (vi) The property ∀a, b∈R then a+b=b+a=b∈R then a is called
   (a) Identity
   (b) Inverse
   (c) Conjugate
   (d) None of these
- (vii) The subspace of R' 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  $T: R^3 \to R^3$  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

# **Mechanical Engineering Mathematics Past Year Papers 20**

**S Ben Porath** 

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This book delves into Mechanical Engineering Mathematics Past Year Papers 20. Mechanical Engineering Mathematics Past Year Papers 20 is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Mechanical Engineering Mathematics Past Year Papers 20, encompassing both the fundamentals and more intricate discussions.

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