Quiz-20

Q.1 Describe the subspace of R^3 spanned by the vectors (1,1,-1) and (-1,-1,1).

(A) R^3 (B) a plane passing through origin (C) a line passing through origin (D) none of these

Q.2 Describe the subspace of R^3 spanned by the columns of a 3 by 5 echelon matrix with 2 pivots.

(A) R^3 (B) a plane passing through origin (C) a line passing through origin (D) none of these

Q.3 Describe the subspace of R^3 spanned by all the vectors with positive components.

(A) R^3 (B) a plane passing through origin (C) a line passing through origin (D) none of these

Q.4 Decide the dependence or independence of the vectors (1,3,2), (2,1,3) and (3,2,1).

(A) linearly dependent (B) linearly independent (C) both A and B (D) none of these

Q.5 If w_1, w_2,w_3 are independent vectors and $v_1=w_2-w_3$, $v_2=w_1-w_3$ and $v_3=w_1-w_2$ then v_1,v_2 and v_3 are _____.

(A) linearly dependent (B) linearly independent (C) both A and B (D) none of these