Quiz-12

Q.1 Let A is an m×n matrix. Then the column space C (A) is a subspace of _____.

 $(A) R^n$

- (B) R^m
- (C) R^{mn}
- (D) None of these
- Q.2 A nonempty set V is said to be a vector space if it satisfies_____.
 - (A) Vector addition (B) Scalar multiplication (C) Both A and B (D) None of these
- Q.3 Every vector space is the largest subspace of itself.

A. True

- B. False
- C. Partially True
- D. None of these
- Q.4 Whether the 1st quadrant of R² is a subspace or not?

A. Yes

- B. No C. partly yes
- D. None of these
- Q.5 If A is a 2nd order zero matrix, then C (A) is _____.
 - (A) Any line passing through origin of R² (B) R² itself (C) Origin of R² (D) None of these
- Q.6 Let A is an m×n matrix. Then the null space N (A) is a subspace of ----.

A. Rⁿ

- B. R^m
- C. R^{mn}
- D. R^{m+n}
- Q.7 Let $A = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$, then N(A) is _____.
- A. Any line passing through origin of R²

- B. R² itself C. Origin of R² D. None of these