Quiz-22

Q.1 The matrix $A=\begin{bmatrix}1 & 2 & 3\\ 4 & 5 & 6\\ 7 & 8 & 9\end{bmatrix}$ has _____ and _____ no. of linearly independent rows and columns respectively.

(A) 2,1 (B) 1,2 (C) 2,2 (D) 3,3

Q.2 Which two columns of the matrix $A=\begin{bmatrix}1 & 2 & 3\\ 3 & 4 & 5\end{bmatrix}$ are linearly independent?

(A) Only 1st and 2nd (B) Only 1st and 3rd (C) Only 2nd and 3rd (D) Any two columns

Q.3 How many column(s) of the matrix $A=\begin{bmatrix}1 & 2 & 3\\ 3 & 6 & 9\end{bmatrix}$ is/are linearly independent?

(A) 0 (B) 1 (C) 2 (D) 3

Q.4. Describe the kernel of the matrix $A=\begin{bmatrix}1 & 2\\ 3 & 6\end{bmatrix}$.

(A) R^2 (B) a line passing through origin of R^2 (C) origin of R^2 (D) None of these

Q.5 What is the nullity of the matrix $A=\begin{bmatrix}1 & 2\\ 3 & 6\end{bmatrix}$?

(A) 2 (B) 1 (C) 0 (D) none of these