# **Matrices - Class XII**

### **Past Year JEE Questions**

### Questions

# **Quetion: 01**

The values of a and b, for which the system of equations

2x + 3y + 6z = 8x + 2y + az = 53x + 5y + 9z = b

has no solution, are : A. a = 3, b  $\neq$  3 B. a  $\neq$  3, b  $\neq$  13 C. a  $\neq$  3, b = 3 D. a = 3, b = 13

## **Solutions**

Solution: 01

# Explanation

D =	$\begin{vmatrix} 2 \\ 1 \\ 3 \end{vmatrix}$	3 2 5	$\begin{vmatrix} 6\\a\\9 \end{vmatrix} = 3 - $	a
D =	$\begin{array}{c} 2 \\ 1 \\ 3 \end{array}$	$3 \\ 2 \\ 5$	$\begin{vmatrix} 8\\5\\b\end{vmatrix} = b -$	13

If a = 3, b  $\neq$  13, no solution.