



# ISRA UNIVERSITY

Islamabad Campus

Department of Electrical Engineering

Program: B.E. (Electrical)

Semester – Summer 2016

MS-121 Linear Algebra

Assignment – 2

Marks: 20

**Due Date: 03/08/2016**

**Handout Date: 30/07/2016**

**Question # 1:**

Evaluate the determinant of the given matrix by cofactor expansion:

$$\begin{bmatrix} 3 & 6 & 0 & 1 \\ -2 & 3 & 1 & 4 \\ 1 & 0 & -1 & 1 \\ -9 & 2 & -2 & 2 \end{bmatrix}$$

**Question # 2:**

Solve by Cramer's rule:

$$\begin{aligned} 4x + 5y &= 2 \\ 11x + y + 2z &= 3 \\ x + 5y + 2z &= 1 \end{aligned}$$

**Good Luck**