ISRA UNIVERSITY
Islamabad Campus

Department of Electrical Engineering
Program: B.E. (Electrical)
Semester – Summer 2016

MS-121 Linear Algebra

Quiz – 2
Marks: 20 **Handout Date: 11/08/2016**

Question # 1:

Use Cramer's rule to solve the following system of equations:

$$\begin{cases} 2x + y + z = 3 \\ x - y - z = 0 \\ x + 2y + z = 0 \end{cases}$$

Question # 2:

Check whether the following 3 x 3 matrix is invertible or not:

$$A = \begin{bmatrix} 1 & 2 & 3 \\ 1 & 0 & 1 \\ 2 & 4 & 6 \end{bmatrix}$$

Question # 3:

Verify that **det (AB) = det (A) det (B):**

$$A = \begin{bmatrix} 3 & 1 \\ 2 & 1 \end{bmatrix}, B = \begin{bmatrix} -1 & 3 \\ 5 & 8 \end{bmatrix},$$