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Daffodil International University

Dept. of Electrical and Electronic Engineering (SUMMER 26)

Quiz: 1

Course Code: 0541-113 Course Title: Linear Algebra and Complex Variable

Section: E Set-1 Time: 30 minutes Marks: 15

1. Express $A = \begin{pmatrix} -19 & -22 & 13 \\ 54 & 79 & 12 \\ -5 & 3 & -49 \end{pmatrix}$ as the sum of a symmetric and skew-symmetric matrices. 5

2. Find the Rank, Echelon Form ,RREF of the following Matrix:

$$B = \begin{pmatrix} 5 & 0 & 7 & 2 \\ 0 & 0 & 3 & 1 \\ 0 & 5 & 4 & 8 \\ 1 & 2 & 3 & 1 \end{pmatrix}$$ 8

3. Find the Inverse of the matrix $A = \begin{pmatrix} -1 & 0 & 3 \\ 0 & 2 & 2 \\ 0 & 0 & -1 \end{pmatrix}$ 2