



**Ziauddin University Faculty of Engineering, Science,
Technology & Management
Department of Software Engineering
Midterm Exam (Sept 2020) Batch 2019 (1st-Year, Semester- 1)**



Subject Code :	Subject : Linear Algebra
Date : September 8, 2020	Timing : 6:30 PM
Max Marks : 20	Duration : Must be submitted within 24 hrs.
Instructor : Dr. Shahzad Nasim	

Instructions:

1. Please read ALL questions carefully before answering.
2. Attempt all questions.

S. No.	Questions	Marks	PLO	CLOC	
Q.1.	$A = \begin{bmatrix} 9 & 7 \\ 4 & 1 \\ 5 & 8 \end{bmatrix} \quad \text{and} \quad B = \begin{bmatrix} 1 & 2 \\ 3 & 3 \\ 2 & 2 \end{bmatrix}$ <p>Find:</p> <ol style="list-style-type: none"> a. A+B b. A-B c. B-A 	5	2	2 2	
Q.2.	$A = \begin{bmatrix} 2 & 4 \\ 4 & 3 \\ 5 & 1 \end{bmatrix} \quad \text{and} \quad B = \begin{bmatrix} 1 & 3 \\ 0 & 2 \\ 6 & 7 \end{bmatrix}$ <p>Find 2A+3B</p>	5	2	2 2	
Q.3.	<p>Given</p> $\begin{matrix} 2 & 3 & 4 & 5 & 6 \end{matrix}$	5	2	2 2	

	<p> $A = \begin{bmatrix} 1 & 5 & 5 \end{bmatrix}$ and $B = \begin{bmatrix} 3 & 8 \\ 2 & 3 \end{bmatrix}$ </p> <p>Find:</p> <p>I. $A \times B$</p> <p>II. $B \times A$</p>				
Q.4.	<p>Find the inverse of the following square matrix:</p> $A = \begin{bmatrix} 1 & 5 \\ 2 & 9 \end{bmatrix}$	5	2	2 2	