

Linear Algebra

BSCS-5th-A

Department of Computer Science Bahria University, Lahore Campus

Quiz: [<u>4]</u>	Date: Week 16, 6 June 2024
Name:	Roll No:

Evaluation of CLO	Question Number	Marks	Obtained Marks
CLO2 : Apply the basic knowledge of vector spaces, Eigen value and Eigen vectors to solve the critical problems of Linear Algebra.	1,2	5+5	
Total	l Marks	10	

Question 1: Find the Characteristic Polynomial for the matrix A.

Question 2: Analyze the eigenvalues and span of eigenvectors of the given matrix B.

$$\begin{array}{ccccc} 1 & -1 & 0 \\ \mathsf{B}\text{=}-1 & 2 & 1 \\ 0 & 1 & 1 \end{array}$$