

Subject Name: Linear Algebra BSCS- 5th -A

Department of Computer Science Bahria University, Lahore Campus

3

4

Total Marks

5

5

20

Assignment: [3]

Date: Week 11, 10 Dec 2023

Name.			
Roll No:			
Evaluation of CLO	Question Number	Marks	Obtained Marks
CLO statement	1	5	
CLO1 Interpret the fundamental concepts of linear algebra, vector	2	5	
equations and linear transformations.			

Q1: Find the vertices of unit square after shearing it along x-axis by a factor 2 and t sheared square by the vector (2, 3).	(5) Then translating the
Q2:	(5)

Find the stretching of an ellipse $\frac{(x-1)^2}{4} + \frac{(y+2)^2}{16} = 1$ along y-axis by factor 3.

Q3: (5)

Let $(x + 1)^2 + (y - 2)^2 = 9$ be a circle. Find its equation and image under the effect of shear parallel to y-axis by factor -2.

Q4: (5)

Let y=2x-3 be a line. Find its reflection along the line x=-2