



University of Central Punjab

Faculty of Information Technology

Assignment No. 2

Program	BS Computer Science	Semester	Spring 2023
Course Title	Linear Algebra	Course Code	CSSS2753
Course Instructor	Aniqa Naeem	Section	D3
Date	26-04-2023	Time Slot	12:00 PM
Student Name		Registration No.	
Total Marks	20		

1. Convert "MEET ME" using Hill cipher with the key matrix to Cipher Text. Ignore the space given.

$$\begin{bmatrix} 17 & 17 & 5 \\ 21 & 18 & 21 \\ 2 & 2 & 19 \end{bmatrix}$$

2. Decode the message "ITAPURITYTISREVINUARAWSETAKNEVIRS" by using Hill cipher Algorithm and the inverse of the matrix

$$\begin{bmatrix} 1 & 3 & 3 \\ 1 & 4 & 3 \\ 1 & 3 & 4 \end{bmatrix}$$