DEPARTMENT: AIML &IT Section: D



Siliguri Institute of Technology Department of Engineering Science & Humanities BS-M101, Mathematics 1A Odd Semester of Academic Year 2022-2023

[BS-M101.3]

Course Instructor: Dr. Jayanta Dutta &

## Assignment 1(Problem Solving)

## Total marks: 5

1. Find the rank of the matrix

 $\begin{bmatrix} 1 & 3 & 2 & 4 & 1 \\ 0 & 0 & 2 & 2 & 0 \\ 2 & 6 & 2 & 6 & 2 \\ 3 & 9 & 1 & 10 & 6 \end{bmatrix}$ 

2. Find A if adj.  $A = \begin{bmatrix} 2 & 1 & 1 \\ -1 & 1 & 1 \\ -1 & -2 & 1 \end{bmatrix}$  and |A| = 3 [BS-M101.3]