

## **ASSIGNMENT 2**

## SCSI1013 DISCRETE STRUCTURE SEMESTER 1 2024/2025

## **INSTRUCTIONS TO THE STUDENTS:**

- This is a group assignment (**TWO** students/group)
- Handwritten
- Zero mark for the late submission
- Submit your assignment during class session (12/11/2024)

## **QUESTION**

Given a relation, R on set  $A = \{-2, -1, 0, 1\}$  represented by the following matrix.

- a) Based on  $M_R$ , define the relation, R.
- b) Construct a digraph of R and state the in degree and out degree of each vertex.
- c) Determine whether *R* is symmetric?
- d) Determine whether R is reflexive?
- e) Conclude if R is equivalence or partial order?