# Indian Institute of Technology, Patna Mid-Term Lab Exam <br> Sub: CS112 

Time: 2 hours
Marks: 20

2/05/2022

## Instructions:

- Answers files: m_1.c and m_2.c
- Proper indentation is mandatory. (2.5 marks)
- You should comment the statements whenever necessary, to make the code understandable. (2.5 marks)


## Questions:

1. Write a program in $C$ to create a matrix $A$ of order $m \times n$ based on run-time integer inputs and find all elements $A[i][j]$ such that it is smallest in the $i^{\text {th }}$ row and largest in the $j^{\text {th }}$ column. ( 7 marks)
2. Write a program to take a set of unique integers as input and store them in a one dimensional array at run time. Perform the following operations: (a) Reverse the array without using additional array, (b) Find two elements in the array whose sum is closest to zero. (8 marks)
