PG (CBCS)
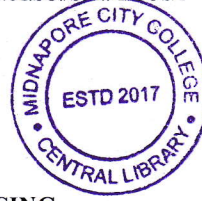**M.SC. Semester- I Examination, 2023**
COMPUTER SCIENCE
PAPER: COS 195 (PRACTICAL)
(PARALLEL COMPUTING LAB & IMAGE PROCESSING
LAB)

Full Marks: 25   **Time: 2 Hours**

The figures in the right-hand margin indicate full marks.
Candidates are required to give their answers in their own words as far as practicable.

M1:

PARALLEL COMPUTING LAB

GROUP-A

1. Answer any <u>ONE</u> of the following questions: **25 X 1 = 25**

a) Write a kernel program to add two integers using CUDA.
b) Write a CUDA program computes the addtion of two vectors stored in array A and B and put the result in array C.
c) Write a CUDA program computing $Y=AX+Y$ using parallel computing.
d) Write a Host Code for Matrix Multiplication using CUDA.
e) Write a Device Code for Matrix Multiplication using CUDA.
f) Write a Host Code for Vector Addition using CUDA.
g) Write a program for Vector Addition using CUDA Threads
h) Write a Device Code for Vector Addition using CUDA.
i) Write a program for Matrix Transpose using CUDA.

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