

School of Information Technology and Engineering

Fall Semester 2022-2023

SET-1

Laboratory Continuous Assessment Test – 2

NAME:

ROLL NO:

Programme Name & Branch: MCA

Course Name & code: ITA5002, Problem solving with Data structures and Algorithms

Class Number (s): VL2022230105108

Slot: C2 +TC2

Exam Duration: 80 Min.

Maximum Marks: 50

General instruction(s):

Answer all the questions (2 * 25 = 50)

1. Implement the insertion sort to the given matrix $A \begin{bmatrix} 45 & 22 & 2 \\ 3 & 12 & 1 \\ 9 & 6 & 8 \end{bmatrix}$ to get an ascending order?
2. Implement linear search to find an element whether **Y** and **D** available or not in the given array?

VIT[10]={B Z A X R O L E D M}

******ALL THE VERY BEST******

School of Information Technology and Engineering

Fall Semester 2022-2023

SET-2

Laboratory Continuous Assessment Test – 2

NAME:

ROLL NO:

Programme Name & Branch: MCA

Course Name & code: ITA5002, Problem solving with Data structures and Algorithms

Class Number (s): VL2022230105108

Slot: C2+TC2

Exam Duration: 80 Min.

Maximum Marks: 50

General instruction(s):

Answer all the questions (2 * 25 = 50)

1. Implement the selection sort to the given matrix $A \begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ 7 & 8 & 9 \end{bmatrix}$ to get a descending order?
2. Implement binary search to identify whether **T** and **Z** elements are available or not in the given array?

VIT[15]={M C A F I R S T Y E A R V I T}

******ALL THE VERY BEST******

School of Information Technology and Engineering

Fall Semester 2022-2023

SET-3

Laboratory Continuous Assessment Test – 2

NAME:

ROLL NO:

Programme Name & Branch: MCA

Course Name & code: ITA5002, Problem solving with Data structures and Algorithms

Class Number (s): VL2022230105108

Slot: C2+TC2

Exam Duration: 80 Min.

Maximum Marks: 50

General instruction(s):

Answer all the questions (2 * 25 = 50)

1. Implement the heap sort to the given values **23 9 44 65 12 99 86 33 12** to get an ascending order?
2. Implement linear search to the find an elements whether **Z** and **I** are available or not in the given array?

VIT[10]={N E W D E L H I}

******ALL THE VERY BEST******

School of Information Technology and Engineering

Fall Semester 2022-2023

SET-4

Laboratory Continuous Assessment Test – 2

NAME:

ROLL NO:

Programme Name & Branch: MCA

Course Name & code: ITA5002, Problem solving with Data structures and Algorithms

Class Number (s): VL2022230105108

Slot: C2+TC2

Exam Duration: 80 Min.

Maximum Marks: 50

General instruction(s):

Answer all the questions (2 * 25 = 50)

1. Implement the radix sort to the given values **23 9 44 65 12 99 86 33 12** to get a descending order?
2. Implement binary search to identify whether **M** and **T** elements are available or not in the given array?

VIT[15]={V I T M C A P}

******ALL THE VERY BEST******

School of Information Technology and Engineering

Fall Semester 2022-2023

SET-5

Laboratory Continuous Assessment Test – 2

NAME:

ROLL NO:

Programme Name & Branch: MCA

Course Name & code: ITA5002, Problem solving with Data structures and Algorithms

Class Number (s): VL2022230105108

Slot: C2+TC2

Exam Duration: 80 Min.

Maximum Marks: 50

General instruction(s):

Answer all the questions (2 * 25 = 50)

1. Implement the insertion sort to the given values **23 9 44 65 12 99 86 33 12** to get an ascending order
2. Implement linear search technique to identify whether **O** element is available or not and count the number of times the character **V** is repeated in the given array?

VIT[15]={V I T V A G O N V E }

******ALL THE VERY BEST******