St. Mira's College for Girls, Pune
(Autonomous-Affiliated to Savitribai Phule Pune University)
Class-S.Y.B.Sc(C.S)
Subject: Data Structures and Algorithms-I
Subject Code:BS32001
Semester: III
Year: 2021-21

All Units - focusing on Skill Development, Employability and Entrepreneurship

Q.1	Attempt any 5 of the following:(5x4=20 Marks)
a.	Sort the following data using quick sort technique: 34,23,67,12,44,78,10
b.	Sort the following data using bubble sort technique: 12,34,56,78,1,3,22,45
c.	What is meant by Linear searching technique? Explain any 2 types in detail(No need of writing the entire program).
d.	Explain the working of radix sort in detail.
e.	Write a 'C' function to sort an integer array using selection sort technique.

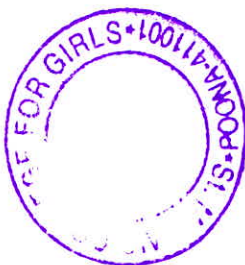Test - Data Structure

09/08/2021
wednesday

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Q3. c. what is meant by linear searching technique ? Explain any 2
types in detail detail.

Linear Search :-
In this technique of searching, the elements to be found
in searching the is searched sequentially in the list.
This method can be performed on a sorted or an unsorted
list.
In case of a sorted list searching starts from the 0th
element and continues until the element is found from
the list or the element whose value is greater than
the value bein [Page 1 / 6] searched. Here we are
assuming the list is sorted in ascending order.

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