



COMSATS University Islamabad, Vehari
Department of Computer Science

Course Title:	Data Structure and Algorithm			Course Code:	CSC211	Credit Hours:	4
Course Instructor:	Sundas Amin			Programme	BSSE		
Semester:	3 rd	Batch	B10	Section:	A	Date:	19-03-2019
Time Allowed:	60 minutes			Maximum Marks:	20		
Student's Name:	Ahmer Iqbal			Reg. No.	CIIT/SPI8-BSE-002 /VHR		

Important Instructions / Guidelines:

Read the question paper carefully and answer the questions according to their statements.
Mobile phones are not allowed. Calculators must not have any data/equations etc. in their memory.

Sessional I Examination Spring 2019

Q# 1. Answer the short questions, each question carry equal marks. (08)

- I. Write down the characteristic of data structure.
- II. How to analyse time complexity of algorithm.
- III. List the basic operations carried out in a linked list.
- IV. Write C++ function to search a specific element in array.

Q# 2. Define data structure. Also explain in detail about the type of data structure. (4)

Q#3. Write the C++ functions to insert a node in single circular linked list. (4)
.: Note: node can be insert at start, mid or end.

Q#4. Write a program in doubly linked list to find the peak element in the linked list. (4)

_____The End _____