Code No: 51006

## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech I Year Examinations, May/June - 2019 COMPUTER PROGRAMMING AND DATA STRUCTURES (Common to CE, EEE, ME, ECE, CSE, CHEM, IT, AE, BT, AME, MIE) Time: 3 hours Max. Marks: 75

**R09** 

## Answer any five questions All questions carry equal marks

1.a)	What is an algorithm? Write an algorithm for finding biggest number amon numbers.	ng three
b)	Explain about software development method.	[8+7]
2.a)	What is a Variable? Explain the rules for declaring a variable.	[7 + 0]
b)	Explain the selection statements if and switch with example.	[7+8]
3.	What is a function? Discuss user defined functions with example.	[15]
4.a)	Explain call by value and pass by reference with suitable example.	
b)	What is String? Explain string handling functions with example.	[7+8]
5.a)	Explain enumerated types.	
b)	What is a Union? Explain the differences between Structures and Unions.	[7+8]
6.a)	What is a file? Expland different file operation with syntax.	
b)	Write a C program of open a pre-existing file and add information at the en	nd of
	the file. Display the contents of the file before and after appending.	[7+8]
7.a)	What is sorting? Explain Quick sort algorithm with example.	
b)	What is a linear search? Write a C program to find an element using linear	search.
,		[8+7]
8.a)	Explain the role of stack in expression evaluation.	
b)	Give the linked list representation of queue data structure.	[7+8]

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