En	rollme	ent No:		Exam Seat No:	
		C.U.SF	HAH UN	NIVERSITY	
				ination-2018	
		Sullin		manon-2010	
Suk	oject I	Name: Advanced C and	Data Structure		
Sul	oject (Code: 4CS02IDS2		Branch: B.Sc.I.T.	
	nester		4/2018	Time: 10:30 To 01:30	Marks: 70
Inst	tructio		1 (0 (1	1	1.11.14
		_		er electronic instrument is	prohibited.
		nstructions written on ma Draw neat diagrams and fi		<u> </u>	
		Assume suitable data if ne	-	ry) at right places.	
	(1) 1	issume surdore data ii ne			
Q-1		Attempt the following of	questions:		(14)
Q-1	a)	Define an array.	questions.		(14)
	b)	Give the Full Name of U	DF		
	c)	What is Pointer?			
	d)	How to represent Node of	of Linked List?		
	e)	Enlist an application of I	Linear Data Struc	cture.	
	f)	What is Structure?			
	g)	What is linked List?			
	h)	Give the Full Name of L			
	i)	List the applications of s	tack.		
	j) k)	Define Data Structure. What do you mean by ar	algorithm?		
	l)	Give the Full Name of F	•		
	,	Enlist operations of stack			
	n)	What is Searching?			
Attempt	any f	Cour questions from Q-2	to Q-8		
Q-2		Attempt all questions			(14)
	a)	Describe pointer to point	ter concept with	proper example.	05
	b)	Explain malloc(), calloc(05
	c)	How to declare, calling,			04
Q-3		Attempt all questions			(14)
	a)	Explain types of an array			07
	b)	Convert the Following In			07
0.4		i) A - B / (C * D \$ E)	11) A \$	B * C - D + E / F / (G + F)	<i>'</i>
Q-4	9)	Attempt all questions Explain Nesting of Func	tions given by a	uitahle example	(14) 05
	a)	Explain Nesuing of Fulle	nons given by St	madie example.	บอ



Discuss call by value & call by reference with an example.

b) Describe stack with its three operation.

c)

05

04

Q-5		Attempt all questions	(14)				
	a)	Define Edge, Parent & Child, Depth, Outdegree, Height, Weight with an	07				
		Example. (Consider tree Example as suitable)					
	b)	What is simple queue? How to insert and delete an element in simple queue?					
Q-6		Attempt all questions	(14)				
	a)	Define Pointer and how to declaring & initializing, using of pointer.					
	b)	Explain Binary and Linear Searching Technique.					
	c)	Differentiate between circular link list and doubly link list.					
Q-7		Attempt all questions	(14)				
	a)	The inorder traversal of a tree is given below with 100 as the root	07				
		node.34,49,50,55,56,67,87,100,130,135,150,160. Draw the appropriate Binary					
		Tree of it.					
	b)	Describe double ended queue and also define input restriction and output	07				
	ĺ	restriction of double ended queue.					
Q-8		Attempt all questions	(14)				
	a)	Explain doubly link list with an example.	07				
	b)	Explain Linear Storage Representation of BST and Draw the tree for following	07				
	/	expression and also store a particular node of tree in an array.					
		(A-B)+C*(D/E)					

