

## MBF-003-004201 Seat No. \_\_\_\_\_

B. Sc. (IT) (Sem. II) (CBCS) Examination

March / April - 2018

CS - 07 : Advance C & Data Structure

Faculty Code: 003 Subject Code: 004201

Tin	ne : 2	$\frac{1}{2}$ Hours]	[Total Marks :	70
1	Ans	wer in one sentences :		20
	(1)	Function call it self that is known as		
	(2)	is the name of the & opera	tor.	
	(3)	There are mainly technique sorting.	s available in	
	(4)	Give the full form of LIFO.		
	(5)	Full form of DMA.		
	(6)	function is use to open file.		
	(7)	function reads a set of data a file.	values from	
	(8)	function is use to close file.		
	(9)	part contains the data value	9.	
	(10)	syntax is use to define file.		
	(11)	mode is use for writing to	the file.	
	(12)	Pre-order traversal sequence is		
	(13)	function is use for closing t	o the file.	
	(14)	function is use to allocate n	nemory.	
	(15)	Give the full form of FIFO.		
	(16)	support LIFO method.		
	(17)	operation is use to insert va	lues in stack.	

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[ Contd....

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	(18)	Wha	What is pointer?			
	(19)		datatype occupied one byte.			
	(20)	Α _	node has no children.			
2	(A)	Answer in two or three sentences : (Any <b>Three</b> )		6		
		(1)	What is stack?			
		(2)	List out advantage of Linked-Lists.			
		(3)	Explain linear data structure.			
		(4)	List out disadvantage of Queue.			
		(5)	Explain circular queue.			
		(6)	Expain File Handling.			
	(B)		te down the answer of following questions : y <b>Three</b> )	9		
		(1)	Explain types of searching techniques.			
		(2)	Explain circular link list with suitable example.			
		(3)	Write a menu driven program to implement a static stack with following operation.			
			Push(), pop(), peep().			
		(4)	Explain ftell() and rewind().			
		(5)	Explain Binary Files with example.			
		(6)	Write a program to input 10 number from user and calculate sum using array of pointer.			
	(C)		te down the answer of following questions in ail : (Any <b>Two</b> )	10		
		(1)	Create structure stud (id, name, deptno) input 5 records and print.			
		(2)	What is structure? Explain with example.			
		(3)	Write a program to sort an array element using Bubble sort technique.			

(4)	Write a menu driven program to implement a static queue.	
(5)	What is binary tree? Explain binary tree traversal method.	
Ans	wer in one sentences : (Any <b>Three</b> )	6
(1)	Difference: fprintf() V/s. fwrite().	
(2)	Write an algorithm to perform push().	
(3)	Define root node, leaf node and child node.	
(4)	Explain operation of stack.	
(5)	Write down rules of pointer.	
(6)	Write an algorithm to perform sorting element in linked list.	
Ans	wer in two or three sentences : (Any <b>Three</b> )	9
(1)	Write an algorithm step to implement stack.	
(2)	Write a program to perform insert Operation in tree.	
(3)	Write an algorithm for following operation on doubly linked list.	
	(1) Create	

- (2)Display
- (3) Sort
- Search
- Difference between singly linked list V/s. doubly (4) linked list.
- Difference between primitive V/s. Non primitive data structure.
- (6) Explain Command line arguments.
- Write down the answer of following questions: **10** (Any **Two**)
  - Compare insertion sort and selection sort.
  - What is circular queue? Explain in detail with example.

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(A)

(B)

- (3) What is linked list? Explain in detail.
- (4) Write a program to input number from users until number is -1 and calculate sum using structure with pointer.
- (5) Write an program for following operation of singly linked list.
  - (1) Append
  - (2) Insert
  - (3) Delete
  - (4) Count