Q.5

Seat No.: \_\_\_\_\_ Enrolment No.\_\_\_\_

GUJARAT TECHNOLOGICAL UNIVERSITY			
Subi	ect C	MCA - SEMESTER- 2 EXAMINATION – WINTER 2018 Code: 3620001 Date: 01-01-2019	
•		ame: Fundamental of Programming – II	
-	: 02.	30 pm to 5.00 pm Total Marks: 70	
	1. A 2. N	Attempt all questions.  Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.	
Q.1	(a)	Answer the following question.  i. What is Pointer?  ii. What is Bitfields?  iii. Define: call by reference.  iv. The bitwise AND operator is used for  vOperator used to access the value of the variable pointed by a pointer.  vi. What is the use of feof()?  vii. Differentiate: Text file & Binary File.	07
	<b>(b)</b>	Differentiate: Pointer to an Array & Array of Pointer.	07
Q.2	(a)	What is Dynamic Memory Allocation? Explain various functions used in Dynamic Memory Allocation.	07
	<b>(b)</b>	Write a short note on: Null Pointer & Void Pointer.  OR	07
	<b>(b)</b>	Write a short note on: Memory Leak & Memory Corruption.	07
Q.3	(a)	Write a C program to concatenate two strings using pointer and user define function.	07
	<b>(b)</b>	What do you mean by Structure? What is difference between array of structure and structure of array?  OR	07
Q.3	(a)	How can we declare, access and store value in to structure variables? Explain with example.	07
	<b>(b)</b>	How structure and Union are differing? Discuss it in detail with example.	07
Q.4	(a)	Discuss different input and output functions of file handling used in C Programming.	07
	<b>(b)</b>	Write a C program to merge two files into the third file.  OR	07
Q.4	(a) (b)	Discuss various functions to access files randomly in brief with example. Write an algorithm to insert a node into Singly Link List.	07 07
Q.5	(a)	What do you mean by Linked List? Discuss the various advantages and disadvantages of Linked List.	07
	<b>(b)</b>	Discuss with figure and compare: Doubly Linked List and Circular Doubly Linked List.	07

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Command Line Argument.

(a) Describe Preprocessor with at least three preprocessor directives with example.

(b) Discuss Command Line Argument in detail. Also write a C program using

**07** 

**07**