Seat No.:	Ennalment No
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GUJARAT TECHNOLOGICAL UNIVERSITY

Date: 18/12/2019

MCA - SEMESTER- II EXAMINATION - WINTER 2019
Subject Code: 3620001 Date: 1

Tir	ne: 0	2:30 PM TO 05:00 PM Total Marks: 70	
HIS	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	Answer the following question. i. What do you mean by Call by reference? ii. What is Enumeration? iii. What is Null Pointer? iv. What is Memory Leak v. How can we use feof()? vi. Which operator is used to access the member of structure using pointer. vii. What do you mean by argv[]?	07
	(b)	Explain Pointer arithmetic in detail with example.	07
Q.2	(a) (b)	Write a short note on: Offsetting a Pointer & Const Qualifier. Give the difference between: Array of Pointer & Pointer to an Array. OR	07 07
	(b)	Write a program in C to find whether the given string is palindrome or not using pointer and user define function.	07
Q.3	(a)	What do you mean by Dynamic Memory Allocation? Discuss various function used for Dynamic Memory Allocation.	07
	(b)	Describe the difference between Structure and Union with example. OR	07
Q.3	(a)	How to declare, initialize and access member of structure? Explain in detail with example.	07
0.4	(b)	Explain the concept of Bitfields with example.	07
Q.4	(a)	What is a file in C? Explain the file opening functions with various modes used in C programming with example.	07
	(b)	A file named 'data' contains a series of integer number. Write a C program to read these numbers and then write all odd number to a file named 'odd' and all even numbers to a file named 'even'.	07
		OR	
Q.4	(a) (b)	Explain different functions to access files randomly in detail with example. Discuss the various advantages and disadvantages of Doubly Linked List.	07 07
Q.5	(a) (b)	Write an algorithm to deletion of a node from a Singly Link List. Describe different applications of a Linked List in detail. OR	07 07
Q.5	(a)	What do you mean by Preprocessor? Write and explain any three preprocessor directives used in C.	07
	(b)	Explain different Bitwise Operators used in C programming in detail with example.	07
