Seat No.:	Enrolment No
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GUJARAT TECHNOLOGICAL UNIVERSITY

MCA – SEMESTER-II EXAMINATION –SUMMER-2020

Subject Code: 3620001 Date:04-11-2020
Subject Name: Fundamental of Programming – II
Time:10:30 AM to 01:00 PM Total Marks: 70

Instructions:

1.	Attem	nt	all	question	s.
••	TACCCITI	Pt	***	question	

- 2. Make Suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a)	Answer the following question.	07
	()	i. How can we declare Pointer?	
		ii. What is Memory Leak?	
		iii. What do you mean by Bit Field?	
		iv. Which function is used to Rename a file?	
		v. What is Node?	
		vi. What is the use Bitwise Shift Operator?	
		vii. What is Void Pointer?	
	(b)	How the Structure is differs from Array? Discuss structure within structure in detail with example.	07
Q.2	(a)	Discuss the concept of Pointer to Function with example.	07
~	(b)	Explain various file handling function used in C.	07
	(~)	OR	٠.
	(b)	What is Dynamic Memory Allocation? Explain various functions used in	07
	` _	Dynamic Memory Allocation.	
Q.3	(a)	Explain Call By Value and Call By Reference in detail.	07
	(b)	Differentiate: Pointer to Array & Array of Pointer with example.	07
		OR	
Q.3	(a)	Discuss the concept of Pointer Arithmetic in detail with example.	07
	(b)	Discuss Array of Structure & Array within the Structure.	07
Q.4	(a)	What is Union? How it differ from Structure?	07
V ··	(b)	Write a C program for deleting the spaces from the contents of file.	07
		OR	
Q.4	(a)	Explain different functions used for Random Access to File with example.	07
1	(b)	What is Doubly Linked List? Explain different advantages and disadvantages of	07
		Doubly Linked List.	
Q.5	(a)	Write an algorithm to delete a node from Circular Link List.	07
	(b)	What do you mean by Command Line Argument? Explain argc and argv in	07
		command line arguments with example.	
		OR	
Q.5	(a)	Write an algorithm for Sorting a Singly Link List.	07
	(b)	Explain Type Qualifier in detail with example.	07
