Seat No.: _____   www.FirstRanker.com Enrolment No. www.FirstRanker.com

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA – SEMESTER – II • EXAMINATION – SUMMER 2018

Subject Code: 3620001 **Date: 18-May-2018**

Subject Name: Fundamental of Programming – II

Time: 10.30 am to 1.00 pm **Total Marks: 70**

Instructions:
1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	**(a)**	Explain malloc() and calloc() functions. Compare both.	**07**
	(b)	Explain call by value and call by reference with example.	**07**
Q.2	**(a)**	What is File? Explain fopen() and fclose() functions.	**07**
	(b)	Explain with example detecting the end of file using feof() function.	**07**
		OR	
	(b)	Write a program to illustrate copying and comparing structure members.	**07**
Q.3	**(a)**	Compare volatile and restrict type qualifier.	**07**
	(b)	Write short note on bit fields.	**07**
		OR	
Q.3	**(a)**	How you can return pointer from a function? Explain with an example.	**07**
	(b)	Explain array of pointers. Write a program to explain the concept.	**07**
Q.4	**(a)**	What is meant by command line arguments? What useful purpose can be served by command line arguments?	**07**
	(b)	Explain enumerated data type with example.	**07**
		OR	
Q.4	**(a)**	Explain sorting of a singly linked list.	**07**
	(b)	Discuss Null pointer and Void pointer.	**07**
Q.5	**(a)**	Write short note on circular linked list.	**07**
	(b)	Write down the advantages and disadvantages of linked list compared to arrays.	**07**
		OR	
Q.5	**(a)**	Explain bitwise operators.	**07**
	(b)	Discuss memory leak and memory corruption.	**07**

****