

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA– SEMESTER –II EXAMINATION –SUMMER-2019

Subject Code:3620001**Date: 15-05-2019****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)** [1]How Address operator(&) work? **07**
 [2]How to free memory?
 [3]What is dangling pointer?
 [4]What is preprocessor?
 [5]Differentiate between p and *p.
 [6]What keyword is used in C to create a structure?
 [7]What is a macro?
- (b)** [1]Define:Call by Reference **07**
 [2]How is a structure different from array?
 [3]When is EOF used?
 [4]Should main() always return a value?
 [5]What is NULL pointer?
 [6]What is the purpose of fopen() function?
 [7]What is bitfields?
- Q.2 (a)** Difference between Pointers and Array. **07**
(b) How pointers to pointers work? **07**
- OR**
- (b)** How dynamic memory allocation work? **07**
- Q.3 (a)** How to copy one structure to another of same type? **07**
(b) Difference between structure and Union. **07**
- OR**
- Q.3 (a)** How nesting of structures work? **07**
(b) Write a program to illustrate the assignment of default values to the members of data type enum. **07**
- Q.4 (a)** Explain different types of file mode. **07**
(b) Write down advantages and disadvantages of linked lists, compared to arrays. **07**
- OR**
- Q.4 (a)** Give different functions for random access files of records with example. **07**
(b) Write a program to split a linked list into two linked lists using both singly linked list and doubly linked list. **07**
- Q.5 (a)** Explain about type of preprocessor directives in c. **07**
(b) Explain about type qualifier. **07**
- OR**
- Q.5 (a)** Explain command line argument with example. **07**
(b) Explain about variable length argument list. **07**
