

QP CODE: 24800326



Reg No :

Name :



M.C.A. DEGREE EXAMINATION, JANUARY 2024

First Semester

Faculty of Technology & Applied Science

Master of Computer Application

CORE - MCACT103 - STRUCTURED PROGRAMMING IN C

2020 Admission Onwards

67A29DED

Time: 3 Hours

Maximum: 75 Marks

Part A

*Answer any **ten** questions*

*Each question carries **3** marks*

1. Write the features of C language.
2. What do you mean by a data type?
3. What is sizeof operator () ?
4. Explain if-else statement with syntax and examples.
5. Explain the working of while statement.
6. What do you mean by call by value?
7. Illustrate various array operations.
8. Write a C program to check whether two strings are equal without using string functions.
9. Illustrate the use of & and * operator using a simple example.
10. Differentiate the declarations `int *a [10]` and `int (*a)[10]`.
11. State the purpose of library function `feof`?
12. Define bitwise operations?

(10×3=30 marks)





Part B

Answer *all* questions

Each question carries **9** marks

13. a) Classify the data types in C

OR

b) Explain the basic structure of C Program

14. a) Discuss various forms of if statements

OR

b) Explain different types of user defined function with proper examples

15. a) Compare array and variables.

OR

b) Write a program to compare two strings without using string functions.

16. a) Give explanations of the various dynamic memory allocation functions in detail.

OR

b) How are pointers declared, initialized and dereferenced? Illustrate with examples.

17. a) Explain the different functions supported in C to read and write data from a file.

OR

b) Explain the various Bitwise Operators with the help of examples

(5×9=45 marks)

