



25805611

QP CODE: 25805611

Reg No :

Name :

M.C.A. DEGREE EXAMINATION, NOVEMBER 2025

First Semester

Faculty of Technology & Applied Science

Master of Computer Application

CORE - MCACT103 - STRUCTURED PROGRAMMING IN C

2020 Admission Onwards

412AD4DC

Time: 3 Hours

Maximum: 75 Marks

Part A

*Answer any **ten** questions*

*Each question carries **3** marks*

1. What do you mean by a data type?
2. Mention the use of conditional operator in C.
3. Mention the use of typedef keyword.
4. Differentiate break and continue statements.
5. What is function prototype?
6. What is register variables?
7. Write a program to find the smallest and biggest element in an array.
8. Define string. How string is declared and initialized?
9. Define a structure named info that contains three members (roll - integer, name- a string of 20 characters and percentage - floating point). Declare an instance of type info named student. Give expressions to refer the members of the structure.
10. Give the syntax for defining the composition of a Union. How are the members of the union referred?
11. Define stream-oriented and system-oriented data files.
12. When parameters are passed to a program from the command line, how is the program execution initiated?

(10×3=30 marks)





Part B

Answer *all* questions

Each question carries 9 marks

13. a) Describe the features of structured Programming.

OR

b) Write note on C Character Set.

14. a) Explain various looping structures with examples

OR

b) What is recursion? Explain the working of recursion with an example.

15. a) Discuss on Array of Strings.

OR

b) Discuss the storing and accessing of values in multidimensional arrays.

16. a) Create a structure for an employee with following information:- empid, name and salary. Write a program to read the details of 'n' employees and display the details of employees whose salary is above 10000. Use array of structures.

OR

b) Discuss on self- referential structures.

17. a) Explain with the help of examples the different file types that can be specified by the fopen().

OR

b) Write a C program to create a file with n numbers, read the file and separate the even and odd numbers into two different files.

(5×9=45 marks)

