**(FOR THE CANDIDATES ADMITTED**

 **DURING THE ACADEMIC YEAR 2021 ONLY)**

21UCC517

REG.NO. :

### N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI

### END-OF-SEMESTER EXAMINATIONS : NOVEMBER-2023

**COURSE NAME: B.Com.-C.A**          **MAXIMUM MARKS: 70**

**SEMESTER: V**          **TIME : 3 HOURS**

### PART - III
### C-PROGRAMMING
**SECTION - A          (10 X 1 = 10 MARKS)**

**ANSWER THE FOLLOWING QUESTIONS.**
**MULTIPLE CHOICE QUESTIONS.          (K1)**

1.  Which is the smallest elements or the building blocks used to construct a C program?
    a) Token          b) Data Type          c) Operators          d) Variables

2.  What is a collection of items of same data type stored at contiguous memory locations?
    a) Union          b) Array          c) Structure          d) All the Above

3.  EOF is an integer type defined in studio hand has a value _____
    a) 1          b) 0          c) NULL          d) – 1

4.  In C a pointer variable to an integer can be created by the declaration_____.
    a) int p*;          b) int *p;          c) int +p;          d) int $p;

5.  Choose correct statements about C Language Pass by Value.
    a) Pass by Value copies the variable value in one more memory location
    b) Pass by Value does not use Pointers
    c) Pass by Value protects your source or original variables from changes in outside functions or called functions
    d) All the above

**ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES.          (K2)**

6. Define Identifiers.

7. Write any two examples for arithmetic operators.

8. What is Nesting of Functions?

9. Define Pointers.

10. Write the Syntax for Opening of Files.

**SECTION – B          (5 X 4 = 20 MARKS)**
**ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.   (K3)**

11. a)  Describe the Rules for Defining Variables with example.
                    **(OR)**
    b)   Switch Statement with example program.

12.a)   Examine Structures in c programming.

**(OR)**

   b)   Sketch Arithmetic Operations and Characters

13.a)   Compute Elements of User Defined Function

**(OR)**

   b)   Find The scope, Visibility and Lifetime of Variables in Functions

14.a)   Describe the Pointer Expression, Increments

**(OR)**

   b)   Sketch the Pointers as Function arguments.

15.a)   List out the Error Handling during I/O Operations

**(OR)**

   b)   Show the importance of Command Line Argument.


**SECTION - C                    (4 X 10 = 40 MARKS)**

**ANSWER ANY FOUR OUT OF SIX QUESTIONS**
**(16th QUESTION IS COMPULSORY AND ANSWER ANY THREE QUESTIONS**
**(FROM Qn. No : 17 to 21)                                 (K4 (Or) K5)**

16.  Prioritize Arrays and its Types with example program.

17.   Formulate Decision Making and Branching with example program.

18.   Summarize the Characteristics of Arrays and String Manipulation.

19.   Evaluate Functions and Category of Functions.

20.   Discuss about Accessing, Declaring & Initializing Pointer Variables with syntax.

21.   Determine the random-Access Files.


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