(FOR THE CANDIDATES ADMITTED

DURING THE ACADEMIC YEAR 2020 ONLY)

20UCC516

REG.NO. :

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

END-OF-SEMESTER EXAMINATIONS: DECEMBER-2022

COURSE NAME: B.Com.-C.A	**MAXIMUM MARKS: 70**
SEMESTER V	**TIME: 3 HOURS**

PART - III
PROGRAMMING IN C

SECTION - A   (10 X 1 = 10 MARKS)

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

1. Which of the following expression are true?
   a. !(5+5>=10)
   b. 5+5==10||1+3==5
   c. 5>10||10<20&&3<5
   d. 10!=15&&!(10<20)||15>30

2. Which of the following initialization statements are correct?
   a. char str1[4] = "GOOD";   b. char str2[] = "C";
   b. char str3[5]= "Moon";   d. char str4[] = { 's' ,'u', 'n'}

3. How do you call a function in C?
   a. myFunction();   b. (myFunction);
   c. myFunction[];   d. myFunction;

4. What is ptr inthe following code known as? int* ptr = &myAge;
   a. A Pointer   b. A Parameter
   c. An Array   d. A Class

5. Which one of the following is the correct syntax for opening a file?
   a. FILE*fopen (const*filename, const char*mode)   b. FILE*fopen (const*filename)
   c. FILE*open (const*filename, const char*mode) d. FILE open (const*filename)

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

6. What is the purpose of printf() function?
7. What is Array?
8. List the elements of User – Defined Function.
9. What do you mean by call by reference?
10. Write a note on getw() function.

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

11. a) Describe the structure of a C Program.

(OR)

  b) Write a program to determine whether a given number is 'Odd' or 'Even' and print the message "NUMBER IS EVEN" or "NUMBER IS ODD".

12. a) Explain One – Dimensional Array.

(OR)

   b) How will you declare and initialize string variable?

13. a) What is the need for User-Defined Function?

(OR)

   b) Write a note on Recursion.

14. a) How will you declare a Pointer Variable?

(OR)

   b) Write a program to illustrate the use of indirection operator '*' to access the value pointed by a printer.

15. a) Write a note on Command Line Argument.

(OR)

   b) How will you handle errors during I/O operators?

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. Explain Decision Making and Looping Statements **.**

17. Write a program to compute and print a multiplication table for numbers 1 to 5 as shown below:

	1	2	3	4	5
1	1	2	3	4	5
2	2	4	6	8	10
3	3	6	9	12	15
4	4	8	12	16	20
5	5	10	15	20	25

18. Write a program that uses a function to sort an array of integers.

19. Explain the categories of Functions.

20. Explain the structures using pointers with suitable program**.**

21. Write a program that will receive a filename and a line of text as command line arguments and write the text to the file.

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