(FOR THE CANDIDATES ADMITTED

DURING THE ACADEMIC YEAR 2023 ONLY)

23UBC101

REG.NO. :

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI
END-OF-SEMESTER EXAMINATIONS : NOVEMBER-2023

COURSE NAME: B.C.A   **MAXIMUM MARKS: 75**

SEMESTER: I   **TIME : 3 HOURS**

PART - III
PROGRAMMING IN C

SECTION – A   **(10 X 1 = 10 MARKS)**

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

1. Who is the father of C language?
   a) Steve Jobs   b) James Gosling   c) Dennis Ritchie   d) Rasmus Lerdorf

2. What is an example of iteration in C?
   a) for   b) While   c) do…while   d) All of the above

3. The value obtained in the function is given back to main by using _____keyword.
   a) return   b) static   c) new   d) volatile

4. Which of the following are themselves a collection of different data types?
   a) String   b) Structures   c) Char   d) All of the above

5. Which type of files can't be opened using fopen()?
   a) .txt   b) .bin   c) .c   d) None of the above

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

6.   Define tokens.

7.   Interpret the conditional or ternary operator in C.

8.   Differentiate between single and multidimensional arrays.

9.   Define Pointer.

10. Define file inclusion in C.

SECTION – B   **(5 X 5 = 25 MARKS)**
ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.   **(K3)**

11. a)   List the data types available in C. Write the significance of each data type.
                                    (OR)
    b)   Describe the role of operator precedence with example.

12 . a) Interpret the Switch statement with example.

(OR)

b) Examine the GOTO statement in C.

13. a) Assess the different types of string handling functions.

(OR)

b) Define Recursion. Write a C program to find the factorial of a number using recursion.

14. a) Describe in detail unions.

(OR)

b) Examine pointer to array with syntax and give example.

15. a) Describe how to open and close a files in C?

(OR)

b) Describe compiler control directives.

SECTION – C   (5 X 8 = 40 MARKS)
ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.
(K4 (Or) K5)

16. a) Outline the basic structure of C program with example. (K4)

(OR)

b) Classify the different types of operators used in C with examples. (K4)

17. a) Summarize If statement and its types. (K5)

(OR)

b) Discuss on the different types of loops used in C with example. (K5)

18. a) Develop a C program to print the numbers in ascending order. (K5)

(OR)

b) Determine the categories of functions based on parameters. (K5)

19. a) Analyze the structure declaration with example. (K4)

(OR)

b) Examine the pointer variable declaration and initialization. (K4)

20. a) Analyze the input/output operation on files. (K4)

(OR)

b) Give an outline on Random access files with example. (K4)

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