

**(FOR THE CANDIDATES ADMITTED
DURING THE ACADEMIC YEAR 2023**

ONLY)

23UAI101

REG.NO.

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

**B. Sc (Computer Science with AI & ML)
I SEMESTER**

**MAXIMUM MARKS: 75
TIME : 3 HOURS**

PART - III

23UAI101 - PROGRAMMING IN C

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

(K1)

1. A physical devices of a computer is called _____
a) Hardware b) Software c) System Software d) Package
2. Which of the following declaration of variable is correct?
a) int total_sum; b) total_sum = 5; c) total_sum int; d) int=total_sum;
3. When all cases are unmatched which case is matched in a switch statement?
a) First case b) default case c) No case d) None
4. _____ is a collection of different data type
a) String b) Array c) Structure d) All the above
5. What is the correct syntax to declare a pointer to a constant?
a) const int *p; b) int const *p; c) const int p; d) Both a and b

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES

(K2)

6. Write any features of C language
7. Define keywords. Give example
8. Mention the use of 'break' and 'continue' statements.
9. Define scope of variables.
10. Write a file output functions

SECTION – B

(5 X 5 = 25 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)

11. a) List the Generation of programming languages and explain

(OR)

- b) Write History of C language

ETHICAL PAPER

(CONTD 2)

12. a) What is Token? What are the different types of token available in C language?
(OR)
b) What is the purpose of scanf() and printf() statement ?
13. a) Write a C program to find the biggest of three numbers using if ..else
(OR)
b) Explain any four string manipulation library functions with their example
14. a) What is recursion? Write a program to find factorial of a number using recursion
(OR)
b) Explain array of structure and structure within a structure with an example
15. a) How is pointer variable declared and initialized?
(OR)
b) Why do we use “File in ‘C’ Language? Explain the Operating modes of files?

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

16. a) Bring out the classification of computer in detail
(OR)
b) Define flowchart. List the various symbols used in flowchart and explain
17. a) What are basic data types available in C? Write the significance of each data type
(OR)
b) Specify various operators in C and explain with example
18. a) Explain the different types of loops in C with syntax
(OR)
b) Define array. How a one dimension and two dimension arrays are declared and initialized?
19. a) List and explain the categories of user defined functions
(OR)
b) What is structure? Explain structure declaration and initialization with example.
20. a) Write a note on following: (i) Array and Pointer (ii) Functions and pointer
(OR)
b) Explain the file I/O function with example: