

(FOR THE CANDIDATES ADMITTED

SUBJECT CODE

25 UCT 101

DURING THE ACADEMIC YEAR 2025-26 ONLY)

REG.NO.

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

END-OF-SEMESTER EXAMINATIONS : NOVEMBER – 2025

B.Sc. – Computer Technology

MAXIMUM MARKS: 75

I SEMESTER

TIME : 3 HOURS

PART – III

PROGRAMMING IN C

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

(K1)

1. _____ keyword is used to define a constant in C.
A. constant B. const C. define D. static
2. _____ loop is guaranteed to execute at least once in C programming.
A. for loop B. while loop C. do-while loop D. None of the above
3. Which keyword is used to return a value from a function?
A. send B. return C. break D. exit
4. Which library function is used to find the length of a string in C?
A. strlen() B. strlen() C. stringlength() D. length()
5. Which function is used to open a file in C?
A. fopen() B. open() C. fileopen() D. startfile()

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES.

(K2)

6. Define the variable in C.
7. What is the correct syntax of the if statement in C?
8. What is a recursive function?
9. What does the strcpy() function do?
10. Which function is used to read a single character from a file?

SECTION – B (5 x 5 = 25 MARKS)

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

(K3)

11. a) Differentiate between relational and logical operators in C. Give examples.

(OR)

- b) Write a C program to read a single character from the user and display it using getchar() and putchar()

(CONTD 2)

12. a) Illustrate the simple if statement with syntax and example.
(OR)
b) Explain the syntax and working of for loop in C with an example.
13. a) What are user-defined functions in C? Explain their advantages with examples
(OR)
b) What is the return type of a function in C? Explain with examples.
14. a) Explain different ways to declare and initialize string variables in C with examples.
(OR)
b) What is a pointer in C? Explain how to declare and initialize a pointer with suitable examples.
15. a) Describe the purpose of the fopen() and fclose() functions in C.
(OR)
b) Explain the purpose of argc and argv[] in command line arguments

SECTION – C

(5 X 8 = 40 MARKS)

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

(K4 (Or) K5)

16. a) Explain the different types of data types in C with examples
(OR)
b) Explain formatted input and formatted output in C with examples
17. a) Explain how multiple conditions are evaluated using the else if ladder. Give an example.
(OR)
b) How do you define and access an array inside a structure? Explain with code.
18. a) Explain the different categories of user-defined functions in C with examples.
(OR)
b) Write a C program to find the factorial of a number using recursion
19. a) Explain the use of strcat() and strncat() functions in C. Write a program to concatenate two strings using strcat().
(OR)
b) Write a C Program to add two numbers using pointers.
20. a) Explain the use of fopen(), fprintf(), fscanf(), and fclose() in sequential file processing in C.
(OR)
b) Write a C program that accepts a filename from the command line and displays its contents.
