

(FOR THE CANDIDATES ADMITTED

25UDA101

DURING THE ACADEMIC YEAR 2025 ONLY)

REG.NO. :

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

END-OF-SEMESTER EXAMINATIONS : NOVEMBER-2025

B.Sc.CS With DA(SF)

MAXIMUM MARKS: 75

SEMESTER: I

TIME : 3 HOURS

PART - III

25UDA101 - PROGRAMMING IN C

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

1. Which part of the computer performs arithmetic and logical operations?

- a) Memory Unit b) ALU c) CU d) Input Device

2. Which operator has the highest precedence in C?

- a) + b) * c) = d) ++

3. Which statement is used to exit a loop early?

- a) exit b) continue c) break d) return

4. Which keyword is used to return a value from a function?

- a) void b) exit c) break d) return

5. Which operator gives the address of a variable?

- a) * b) & c) @ d) #

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES

6. Interpret the use of a flowchart.

7. Summarize the function of comma (,) operator in an expression.

8. Define a one-dimensional array.

9. What is meant by recursion?

10. State the use of fscanf()

SECTION – B

(5 X 5 = 25 MARKS)

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

11. a) Demonstrate the role of input, processing and output components in a computer.

(OR)

b) Illustrate the use of keywords and identifiers with an example.

12. a) Differentiate the implicit and explicit type conversions.

(OR)

b) Describe the role of getchar() and putchar() functions.

(CONT....2)

13. a) Use the switch statement to build a simple calculator performing addition, subtraction, multiplication, and division.

(OR)

- b) Implement a program to find the sum of digits of a number using a loop.

14. a) Demonstrate the use of any five string handling functions with examples.

(OR)

- b) Illustrate the concept of scope and lifetime of variables with a suitable program.

15. a) Explain the concept of array of pointers with a suitable example.

(OR)

- b) Discuss how error handling is performed in file operations.

SECTION – C

(5 X 8 = 40 MARKS)

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

16. a) Analyze the historical development and significance of C.

(OR)

- b) Investigate the importance of using algorithms and flowcharts in structured programming.

17. a) Categorize various types of Operators in C with examples.

(OR)

- b) Discuss the effectiveness of formatted input and output functions.

18. a) Evaluate the usage of two-dimensional arrays with a suitable Program.

(OR)

- b) Investigate the performance of while, do-while and for loops.

19. a) Determine the concepts of character arrays and string literals in C.

(OR)

- b) Examine how memory is allocated to structures in C.

20. a) Examine how structure pointers are used in C.

(OR)

- b) Compare formatted and unformatted file I/O functions in C.
