

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

23UMS408

REG.NO. :

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

END-OF-SEMESTER EXAMINATIONS : MAY - 2025

B.Sc. - MATHEMATICS

MAXIMUM MARKS: 75

SEMESTER: IV

TIME : 3 HOURS

PART - III

PROGRAMMING IN C

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

MULTIPLE CHOICE QUESTIONS.

(K1)

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES.

(K2)

6. Define variables.
7. Write the statement for ‘do statement’.
8. Write a statement to compare two strings.
9. Define function cells.
10. Define declaring pointer variables.

SECTION – B

(5 X 5 = 25 MARKS)

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

11. a) Define Keywords and Identifiers.
(OR)

b) Explain increment and decrement operators.

12. a) Explain formatted input and formatted output operations.
(OR)

b) Write the program for the if else statement.

13. a) Write a program to illustrate a one-dimensional array.

(OR)

b) Write a short description of declaring and initializing string variables.

14. a) Explain short notes on elements of user-defined functions.

(OR)

b) Write a program for functions with no arguments and no return values.

15. a) Write a short note on declaring pointer variables.

(OR)

b) Explain pointers to functions.

SECTION – C

(5 X 8 = 40 MARKS)

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

(K4 (Or) K5)

16. a) Write a short description of relational operators and logical operators in detail.

(OR)

b) Explain in detail about the basic structure of the C program.

17. a) Write a short note on decision-making with an if statement.

(OR)

b) Describe the while statement along with the suitable program.

18. a) Write a program for initializing two-dimensional array.

(OR)

b) Write short notes on arithmetic operations on characters.

19. a) Explain in detail about the multi-function program.

(OR)

b) Describe the nesting of functions with a suitable program.

20. a) Write a program for accessing a variable through its pointer.

(OR)

b) Describe in detail about pointers as function arguments.
