

(FOR THE CANDIDATES ADMITTED
DURING THE ACADEMIC YEAR 2022 ONLY)

22UMS408

REG.NO. :

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI
END-OF-SEMESTER EXAMINATIONS : MAY-2024
COURSE NAME: B.Sc.-MATHEMATICS **MAXIMUM MARKS: 50**
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

1. The number of keywords in ANSI C is _____.
a) 32 b) 40 c) 20 d) 50
2. The _____ statement is an exit-controlled loop statement.
a) while b) do c) for d) none
3. The printf function with _____ format to print strings to the screen.
a) % ws b) % s c) % d d) % f
4. A return statement can return only _____ value.
a) one b) two c) three d) four
5. If x is a variable, then _____ returns the number of bytes needed for the variable.
a) change() b) fptr() c) sizeof(x) d) sort(x)

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES.

K2

6. Write the types of tokens in C.
7. Write the syntax of nesting of if ... else statement.
8. Write the types of arrays.
9. State the category of functions.
10. Define Pointers.

SECTION – B

(5 X 3 = 15 MARKS)

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

11. a) Explain Keywords and Identifiers in C.
(OR)
b) Write a note on Arithmetic Operators.
12. a) Discuss simple if statement.
(OR)
b) Explain the switch statement.
13. a) How to declare one-dimensional arrays? Explain.
(OR)
b) Write about declare and initialize string variables.

(CONTD.....2)

14. a) Explain return values and their types.
(OR)
b) Write a note on recursion.
15. a) Explain the declaration of Pointer variables.
(OR)
b) Explain Array of Pointers.

SECTION – C**(5 X 5 = 25 MARKS)****ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.
K4 & K5**

16. a) Discuss the data types in C.
(OR)
b) Explain (i) Relational Operators (ii) Logical Operators.
17. a) Explain the if ... else statement with an example.
(OR)
b) Discuss for statement with an example.
18. a) Write a C program to multiply the elements of two $N \times N$ matrices.
(OR)
b) Explain string-handling functions.
19. a) Discuss arguments but no return values.
(OR)
b) Explain the functions that return multiple values.
20. a) How to initialize Pointer variable? Explain.
(OR)
b) Explain Pointers and Arrays.
