

(FOR THE CANDIDATES ADMITTED

21UMS5E1

DURING THE ACADEMIC YEAR 2021-2024 ONLY)

REG.NO. :

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

END-OF-SEMESTER EXAMINATIONS: NOVEMBER - 2024

COURSE NAME: B.Sc.- MATHEMATICS

MAXIMUM MARKS: 70

SEMESTER: V

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 used in C is
(a) 32 (b) 34 (c) 36 (d) 38
2. The ?: operator is called _____ operator.
(a) Relational (b) Conditional (c) Arithmetic (d) Bitwise
3. An array can be initialized at _____.
(a) At compile time (b) at run time (c) a & b (d) At result time
4. A function declaration consists of _____.
(a) Function type (b) function name (c) parameter list (d) all
5. Pointer variables contain _____.
(a) Values (b) addresses (c) keyword (d) white space

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES.

(K2)

6. List out the three classes of data types in C .
7. Write the basic format of the While statement in C.
8. What is called string?
9. Give the example of user – defined function.
10. Write the uses of pointers.

SECTION – B

(5 X 4 = 20 MARKS)

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

11. a) Explain the declaration of variables in C illustrate with an example.

(OR)

- b) Explain the basic structure of C .

12. a) Write a C program to read and write a single character.

(OR)

- b) What are the rules used in switch statement in C.

(CONTD.....2)

13. a) List out the most commonly used string handling functions and explain any two.

(OR)

b) How to initialize two dimensional arrays by using examples.

14. a) Explain function calls with example,.

(OR)

b) Explain the declaration of functions in C with example.

15.a) Write a program using pointers to exchange the values stored in two locations in the memory.

(OR)

b) Write the rules of pointer operations in C.

SECTION - C

(4 X 10 = 40 MARKS)

ANSWER ANY FOUR OUT OF SIX QUESTIONS

(16th QUESTION IS COMPULSORY AND ANSWER ANY THREE QUESTIONS (FROM Qn. No : 17 to 21) (K4 (Or) K5)

16. Describe the operators in C with illustrations.

17. Explain 'for' loop with example in C.

18. Explain various If - statements in C with an example.

19. Explain one dimensional array and also its initiation and declaration in C.

20. Criticize the category of functions.

21. Summarize the concepts of pointers as function arguments with examples.
