

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

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22UDA101

REG.NO

NGM COLLEGE (AUTONOMOUS) POLLACHI

END-OF-SEMESTER EXAMINATIONS: DECEMBER- 2022

B. Sc Computer Science with Data Analytics

MAXIMUM MARKS: 50

I SEMESTER

TIME: 3 HOURS

PART - III

PROGRAMMING IN 'C'

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

(K1)

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES

(K2)

6. Define variable
7. Illustrate the increment and decrement operator.
8. Explain the necessity of braces in if statement.
9. Define Union
10. Explain the array Pointer.

SECTION – B (5 X 3 = 15 MARKS)

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

(Qn. No. 11 to 15 Questions for Short Answers with internal choices) (K3)

11 a) Describe the structure of C program

and/or
(OR)

b) List the C character set with appropriate example.

(CONT'D...2)

12. a) Describe the Type conversion expression with example.
(OR)
 b) Examine the mathematical functions with neat example.

13. a) Describe the Switch case statement with neat example .
(OR)
 b) What is an array? Explain how an array can be declared in c program.

14. a) Interpret function calls.
(OR)
 b) What is recursion? Explain with an example.

15. a) Describe the array of pointers with relevant example.
(OR)
 b) Examine how read and write functions are used in file stream.

SECTION – C **(5 X 5 = 25 MARKS)**

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

(Qn. No. 16 to 20 Questions for Long Answers with internal choices **(K4 (Or) K5)**

16. a) Determine the features of primary data types and user defined data types in C.
(OR)
 b) Define keyword. Explain different types of keyword used in c language.

17. a) Classify the Operator. Explain about the Various types of Operators used in C with suitable Examples.
(OR)
 b) Investigate the unformatted Input and output functions with proper examples.

18. a) Summarise decision making statements in C language.
(OR)
 b) Analyze One dimensional and Two dimensional array with example.

19. a) Determine different types of user defined function used in c language.
(OR)
 b) Criticise the different types of string library functions with neat example.

20. a) Appraise the pointer and strings in c language.
(OR)
 b) Summarize the various statements used in file input/output operations.