

KAMARAJ COLLEGE (Autonomous)

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(Affiliated to Manonmaniam Sundaranar University, Tirunelveli)

THOOTHUKUDI – 628 003

(6 Pages)

Reg. No:

Question Code No : 25001206

Course Code : 24USPH31

UG Degree - End Semester Examinations, November 2025

Third Semester

B.Sc. PHYSICS

C Programming

(For those who joined in July 2024 onwards)

Time : 3Hours

Maximum : 75 Marks

PART – A (10 × 1 = 10 Marks)

Answer ALL Questions

Choose the correct answer:

1. Tokens of a C program include
 - (a) Keywords
 - (b) Constants
 - (c) Operators
 - (d) All the above
2. Which of the following is not a valid C variable name?
 - (a) int number;
 - (b) float rate;
 - (c) int variable_count;
 - (d) int \$main;

- (a) declaration (b) initialization
(c) iterating (d) both (a) and (b)

PART - B (5 X 5 = 25 Marks)

**Answer ALL Questions choosing either (a) or (b).
Answer should not exceed 250 words.**

11. (a) Give the basic structure of C program.

(OR)

(b) What is a token? What are the different types of token available in C language? Explain.

12. (a) Give a brief note on arithmetic expression in C programming.

(OR)

(b) What is the purpose of the printf() and scanf() functions? Illustrate with a C program.

13. (a) Explain simple IF and IF ELSE statement.

(OR)

(b) Write a C program to find the largest of three numbers using if-else.

14. (a) Define a function. What is meant by user defined function?

(OR)

(b) Write a C program to find the sum of numbers from 1 to N using recursion method.

15. (a) Write a note on array.

(OR)

(b) Write a C program to find the sum of two matrices.

PART - C (5 X 8 = 40 Marks)

Answer ALL Questions choosing either (a) or (b).

Answer should not exceed 500 words.

16. (a) Explain the different types of data types in C with examples.

(OR)

(b) What are variables? Describe the initialization of variables.

17. (a) Discuss the various type of operators involved in C language.

(OR)

(b) Explain data input and output functions in C.

18. (a) Show how break and continue statements are used in C programming.

(OR)

(b) Write a C program to generate Fibonacci series

19. (a) Explain Library functions in C language with their syntax.

(OR)

(b) Write a C program to generate Sine series.

20. (a) Explain two-dimensional array with simple C program.

(OR)

(b) Write a C program to find the product of two matrices.