



22102352

QP CODE: 22102352

Reg No :

Name :

**B.Sc/BCA DEGREE(CBCS) REGULAR / IMPROVEMENT /REAPPEARANCE
EXAMINATIONS, JULY 2022**

First Semester

**Core Course - CS1CRT02 - METHODOLOGY OF PROGRAMMING AND C
LANGUAGE**

(Common to B.Sc Computer Applications Model III Triple Main, B.Sc Computer Science Model III,
B.Sc Information Technology Model III, Bachelor of Computer Application)

2017 Admission Onwards

078D26AA

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. What is a language translator?
2. What is a sequence structure?
3. Distinguish testing and debugging.
4. Differentiate between keywords and identifiers.
5. What are static variables?
6. What is the use of exit() ?
7. Draw the flow chart showing the execution of while loop in C.
8. How can we initialize an array during compile time?
9. Mention any four string handling functions with its purpose.
10. Explain the execution of a function.
11. What are Library Functions? Give Example.
12. What is static variable?





(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Explain high level language along with its merits and demerits.
14. Write notes on a) Characteristics of a good programming language. b) Factors for selecting a language for coding an application.
15. Why do you mean by type modifier? What are the different type conversions possible in C? Explain with example.
16. Explain printf() and scanf() statements in C.
17. Write a C program to perform the functions of arithmetic operations of a calculator using switch statement.
18. What are the possible arithmetic operations with pointers? Explain with suitable example.
19. Explain how to pass array as argument to function with example.
20. How recursion differ from iteration? Give example.
21. Write short note on typedef statement and its use in defining user defined data types.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. Explain with examples (a) Algorithm and its characteristics (b) Flow chart with its advantages and disadvantages.
23. What are the different types of operators supported by C? Explain each.
24. Write a C program to pass an array of integers to a function and find its sum of elements.
25. What is arrays of structures ? Explain with example.

(2×15=30)

