

Roll No.

**97665**

**BCA 2nd Semester (Full & Re-appear)**

**Examination – May, 2024**

**C PROGRAMMING**

**Paper : BCA-106**

*Time : Three Hours ]*

*[ Maximum Marks : 80*

*Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.*

**Note :** Attempt *five* questions in all. Question Number 1 will be *compulsory*. In addition to compulsory question, student will have to attempt *four* more questions selecting *one* question from each Unit.

1. (a) Define identifier and keywords in detail.
- (b) Explain the uses of Assignment statement.
- (c) What is prototype ? Explain.

- (d) Explain the Uses of Nested loops
- (e) Difference between getch( ) and Putchf( )
- (f) Define Static storage class.
- (g) Define uses of Nested if statement.
- (h) Define string constant.

**UNIT – I**

2. (a) Define 'C' Programming. Explain the History and Importance of C programming in detail.
- (b) Explain the following in detail :
  - (i) Data types supported by C language
  - (ii) Type casting and conversion
3. (a) What is Operators in C Language ? Explain different Operators used in C Language through example.
- (b) Explain the following :
  - (i) Constant and Variable
  - (ii) Printf( ) Vs Scanf( )

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## UNIT – II

4. Explain the following with example :
- (a) Difference between while and do while loop
  - (b) For loop
5. What do you mean by decision making & branching ? Explain decision making with if statement, if-else statement, switch statement and goto statement through suitable example.

## UNIT – III

6. Explain the following in detail :
- (a) Output Functions in C Programming
  - (b) Passing parameters and recursion
7. Explain the following in detail through suitable example :
- (a) String manipulation Functions in C Programming.
  - (b) Local and global variable.

## UNIT – IV

8. (a) What is flowchart ? What are the various basic symbols used in flowcharting ? How does a flowchart help a programmer in program development ? Explain.
- (b) What is pointer ? Explain the uses of pointer in C language with example.
9. (a) What is an algorithm ? What are the commonly ways used to represent algorithms ? Explain the characteristics of algorithm in detail.
- (b) What is Array ? Explain the concept of passing arrays to functions through example.

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