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B.C.A. 2nd Semester (Full & Re-appear)
Examination, May-2023
'C' PROGRAMMING
Paper- BCA-106

Time allowed : 3 hours [Maximum marks : 80]

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. All questions carry equal marks.

1. (a) Explain the structure of C program. $2 \times 8 = 16$
 (b) What do you mean by identifier and keywords? Explain.
 (c) Explain the uses of Assignment statement.
 (d) Explain the uses of Algorithm development.
 (e) Explain Global Variable and its uses.
 (f) Explain the Uses of Nested loops.
 (g) Differentiate between getch() and Putch()
 (h) Differentiate between syntax errors and logic errors found in computer programs.

Unit-I

2. (a) What do you mean by 'Data type'? List the various data types supported by C language and briefly explain them by using suitable examples.

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- (b) Explain the following:

- (i) Constant and Variable
- (ii) Type casting and Conversion

3. (a) What do you mean by 'C' Programming? Explain the History and Importance of C programming in detail.
4. (b) What do you mean by Operators in C Language? Explain different Operators used in C Language through example.

Unit-II

4. What are various looping statements? Explain the difference between while and do while loop by suitable example. <https://www.mdustudy.com>

5. Explain the following with example:

- (a) If-Else statement and Nested If Statement
- (b) Switch statement and goto statement

Unit-III

6. Explain the following in detail

- (a) Input Functions in C Programming
- (b) String manipulation Functions in C Programming

7. (a) What is a Function? How can you pass parameters to a function? Explain through suitable example.

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8. (b) Write a recursive function with one integer parameter that returns the factorial of its parameter

Unit-IV

8. (a) What is Array? Explain its different types. Also Explain the concept of passing arrays to Functions through example.
- (b) What is pointer? Explain the uses of pointer in C language with example.
9. Explain the following in detail
 - (a) String Constant and variable
 - (b) Storage classes in C