

B.C.A. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2023.

First Semester

Computer Application – Core

PROGRAMMING IN C

(For those who joined in July 2021-2022 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer:

- Functions in C Language are always
 - Internal
 - External
 - model
 - enumerate
- The scanf() is a predefined function in header file.
 - stdlib. H
 - ctype. H
 - stdio. H
 - stdarg. h
- Which of the following can never be sent by call-by-value?
 - Variable
 - Array
 - Structures
 - Both Array and Structures
- What is the maximum number of arguments that can be passed in a single function?
 - 127
 - 253
 - 361
 - 1000
- What does tmpfile() returns when it could not create the file?
 - stream and NULL
 - only stream
 - only NULL
 - does not return anything
- Which of the following cannot be a structure member?
 - Another structure
 - Function
 - Array
 - None of the mentioned

- Which for loop has range of similar indexes of 'i' used in for (i = 0; i < n; i++)?
 - for (i = n; i > 0; i-)
 - for (i = n; i >= 0; i-)
 - for (i = n-1; i > 0; i-)
 - for (i = n-1; i > -1; i-)
- The value obtained in the function is given back to main by using _____ keyword.
 - return
 - static
 - new
 - volatile
- Which type of conversion is NOT accepted?
 - From char to int
 - From float to char pointer
 - From negative int to char
 - From double to char
- Which of the following is a ternary operator?
 - &&
 - >>=
 - ?:
 - >

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

- What are the mathematical functions in C? Explain.

Or

 - Elaborate the concept of identifier and the rules to be followed for forming an identifier.
- Write a note on GOTO statement with example.

Or

 - How will you writing a character in C? Give example.
- Write down the reading strings from terminal in C with example.

Or

 - How will you declare and initialize string variables? Explain.
- Elaborate the need for user defined functions.

Or

 - Describe the no argument and no return values to function in C.



15. (a) Explain the accessing the address of variables in pointers.

Or

(b) Mention the pointer increments and scale factor.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Illustrate the bitwise operator used in C language.

Or

(b) Determine the assigning values of variables with example.

17. (a) Differentiate between do while and while loop statement in C.

Or

(b) Illustrate the ELSE IF ladders with example.

18. (a) How to initialization the elements in multidimensional array? Explain.

Or

(b) What are the various types of string handling functions? Explain with example.

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19. (a) Elaborate the scope and life time of variables in functions.

Or

(b) Explain the handling of non integer function In C language.

20. (a) Elaborate the purpose of pointer expressions.

Or

(b) How will you accessing a variable through its pointers? Explain.

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