

B.C.A Semester - 1 (CBCS) Examination
Oct/Nov. - 2019 (New Course)
PROGRAMMING IN C (CORE)

Time: 2:30 Hours**Marks: 70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Q.1 [A] Answer the following. (03)
- (1) Which datatype is used in C to represent a fractional number?
 - (2) C is developed by _____
 - (3) What is the use of operator in C?
- Q.1 [B] Attempt any two: (06)
- (1) What is type casting? Explain giving example
 - (2) Define variable. How it is useful in programming?
 - (3) List various relational operators. Explain any one
 - (4) Explain with example : PRE – PROCESSORS
- Q.1 [C] Attempt any one: (05)
- (1) What is a Flow Chart? Explain its usefulness.
 - (2) State the differences between traditional C and modern C
- Q.2 [A] Answer the following (03)
- (1) Give syntax of conditional ternary operator
 - (2) Which loop executes itself atleast once?
 - (3) What is the use of 'break' statement?
- Q.2 [B] Attempt any two: (06)
- (1) Explain giving syntax if – else if ladder.
 - (2) Explain with syntax : while loop
 - (3) Explain with example : goto statement
 - (4) What is the use of 'continue' statement? Explain giving example.
- Q.2 [C] Attempt any one: (05)
- (1) Differentiate between : for loop and do while loop
 - (2) Write a program which decides whether the entered number is a prime number or not.
- Q.3 [A] Answer the following. (03)
- (1) What is the extension of a header file?
 - (2) Which file is included to use mathematical function in a C program?
 - (3) Write any one I/O formatting function.
- Q.3 [B] Attempt any two: (06)
- (1) Write with syntax the names of functions which give the floor and ceiling value of a floating number.
 - (2) What are library files? What is their use?
 - (3) Explain static variable with example.
 - (4) Explain with example any one Date and Time function.

- Q.3 [C] Attempt any one: (05)
- (1) Write a program to take up two strings from the user. Concatenate them and count the no of characters of joined string using readymade string functions.
 - (2) Explain giving example : Function call by reference
- Q.4 [A] Answer the following (03)
- (1) A _____ is a user defined data type, which is a collection of a no of variables of same/different data types.
 - (2) Define 'array'
 - (3) What is string?
- Q.4 [B] Attempt any two: (06)
- (1) Explain the concept of structure with example.
 - (2) What is two dimensional array? Give example.
 - (3) Explain with syntax and example : array within structure
 - (4) State differences between structure and union
- Q.4 [C] Attempt any one: (05)
- (1) Write a program to store the minimum and the maximum temperature values of four metropolitan cities. Display them.
 - (2) Write a program to record the following information of 10 different items using structure:
Item name(character), item id(character), item price(float), item count(integer)
Display the information in appropriate format.
- Q.5 [A] Answer the following. (03)
- (1) Which function is used to open the currently opened file in another mode?
 - (2) What is a data file?
 - (3) Define pointer
- Q.5 [B] Attempt any two: (06)
- (1) What is the basic use of opening a file in append mode?
 - (2) Explain briefly : pointer to array
 - (3) Explain the concept of pointer to pointer.
 - (4) Explain giving syntax, the use of fscanf().
- Q.5 [C] Attempt any one: (05)
- (1) State the importance of file handing in C
 - (2) Write a program that shows the use of command line arguments.
