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**19/189-C**

**B.C.A. (First Semester) Examination, 2019**

**Paper : Third (103)**

**(Programming Principles and 'C' Language)**

**Time : Three Hours ] [ Maximum Marks : 70**

**Note :** Attempt questions from **all** sections as per instructions.

**(Section - A)**

**(Very Short Answer Type Questions)**

**Note :** Attempt **all** parts of this question in about 50 words.  $1\frac{1}{2} \times 10 = 15$

1. (i) How to execute 'C' Program?  
(ii) Define variable? How to declare variable?  
(iii) Describe about conditional operator.  
(iv) Define loop?  
(v) Describe about go to statement.  
(vi) Define Array?

P.T.O.

- (vii) Define file?
- (viii) Describe about memory?
- (ix) Describe about pointer?
- (x) Describe about Union?

**(Section - B)**

**(Short Answer Type Questions)**

**Note :** Attempt **all** questions. Answer each question in about 200 words.  $7 \times 5 = 35$

2. Explain about C data types?

**OR**

Describe the features and application of C language.

3. Differentiate between If-else and switch statement.

**OR**

Write C program to find largest number among given three numbers.

4. Differentiate between break and continue statements.

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**OR**

Write C program to calculate factorial of any given number.

5. Define function. Describe about called function, calling function and function parameters.

**OR**

Write C program to compute addition of two numbers using function.

6. Write C program to compute addition of two matrix.

**OR**

Describe about pointer with function and pointer to pointer. <https://www.vbspustudy.com>

**(Section - C)**

**(Long Answer Type Questions)**

**Note :** Attempt any **two** questions in about 500 words.  $10 \times 2 = 20$

7. Explain about operator precedence and associativity in C.

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8. Differentiate between for, while and do-while loops.
9. Differentiate between Sequential and Random access file. How to copy one content of file to another file.
10. Differentiate between :
- (i) Dynamic memory allocation and static memory allocation.
  - (ii) Structure and union
11. Write C program to generate fibonacci series using recursion.

<https://www.vbspustudy.com>

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