

**AC-231**  
**B.C.A. I Sem. Examination, 2019**  
**(New Course CBCS)**

**C-102**

**Sub. - Introduction to Programming using 'C'**

*Time : Three Hours ]*

*[ Maximum Marks : 50*

*[ Minimum Marks : 20*

**Note :** Attempt any **five** questions. **All** questions carry equal marks.

1. What do you understand by Array and describe its uses. Write a program to transpose a matrix of dimension  $N \times N$ .
2. Define the following with example:
  - (a) Precedence order and associativity of the operator.
  - (b) Compound assignment & multiple assignment operator.
  - (c) Logical operator.
  - (d) Address of operator & Indirection operator
  - (e) Bitwise operators.
3. Write a program in C to test:
  - (a) Whether a given no. is Prime or not using For-loop.
  - (b) Differentiate between **Break** & **Continue** statement with example. 5
4. Write a program in C to Interchange the value of the variables by using call by reference method. 5

**P.T.O.**

5. Write short notes on the following with examples :

- (a) Pointer
- (b) Header files & Library function.
- (c) While & Do-While loop.
- (d) Static storage class & Automatic storage class.

6. What is recursion? Write a programme :

- (a) to find the factorial of any number using recursion.
- (b) Write a program to copy a content of an existing file to another file.

7. (a) Write a program to generate the fibonacci series upto N.

(b) Explain the structure and union with example. 5

8. Write short notes on the following :

- (a) Command line argument
- (b) Pre-processor directives.

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