

B.C.A. (Paper-I) Exam

(First Semester)

Paper-I

(BCA – 102: PRINCIPLES OF COMPUTER)

Time: Three Hours

- Note :** (i) Answer **five** questions in all.
- (ii) Question No.1 is **compulsory**.
- (iii) Answer remaining **four** questions, select any four.
- (iv) All question carry **equal** marks.
- (iv) Symbols have their usual meaning.

1478/I

BCA (Part I) Examination, 2017

(First Semester)

Paper - IV

(BCA 104: Introduction to Computer Programming in C)

Time : Three Hours]

[Maximum Marks : 70

Note: (i) Attempt **five** questions in all.

(ii) All questions carry **equal** marks.

(iii) Question No.1 is **compulsory**.

(iv) Symbols have their usual meaning.

(v) Answer remaining **four** questions selecting **two** from each **Section A** and **B** but not more than **two** questions from each section.

1. Answer all parts of the following:

- Describe the structure of 'C' program with block diagram.
- Define errors. Which type of error occurs in 'C'?
- Describe any **two** string functions.
- What will be the output of the following program segment?

```
int i=7;  
while(i<=7);  
printf("%d", i);
```

Section – A

- What are operators in 'C'? Give their types with giving examples.
- What do you mean by branching? How are it used in 'C' Programming? Describe each type of branching with suitable examples.



4. Which type of data used over primitive data types from storing many of same types of data values? Figure out its merits and limitations.
5. Describe function in 'C' language with syntax and examples using program that print name and temperature of given cities and also calculates average temperature using a function.

Section – B

6. (a) Write a program in 'C' to find out the Fibonacci Series whose first two numbers are 3 and 4.
(b) Write a program to find the sum of digits of given number.
7. (a) What is the significance of an algorithm?
(b) Differentiate between structure and union.
8. (a) Differentiate between while and do-while loops with example.
(b) Define Pointer. How is it used for dynamic memory allocations with different functions?
9. Write notes on any **two** of the following:
 - a) String
 - b) File Handling in 'C'
 - c) Nested "if-else" structure.



