

1478/I

BCA (Part I) Examination, 2015

(First Semester)

Paper - IV

(BCA 104: 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**.

1. Answer the following parts in brief:

a) What are printf and scanf?

b) What will be the output of the following:

```
void main()
{
    int a, b=68;
    a=(b>65?65:75);
    printf("%c", a);
    getch();
}
```

c) What is difference between ""%" and "/" operators in C?

d) Is this a correctly written function:

```
int sq(int a);
{
    return (a*a);
}
```

Explain in brief:

- e) State the following statement is true or false with explanation:  
“Is it necessary for a function to return some value”.

### Section – A

**Note:** Answer any **two** questions among the following of which each can be answered in maximum of **1000** words.

2. What do you mean by decision control structure in C? Explain the implementation of it with the help of example.
3. How ‘while’ loop and ‘for’ loop can be converted to each other? Explain your answer with appropriate example.
4. What are functions in C? How functions can be useful? Illustrate the use of functions with taking suitable examples.
5. What do you understand by array? How arrays are implemented in C? Explain the procedure to input and output the array element.

### Section – B

**Note:** Answer any **two** questions among the following of which each part can be answered in maximum **500** words.

6. (a) Two numbers are input through the keyboard into two different locations. Write a program to interchange the content of those two locations.  
(b) What is the standard form of a general C program? Explain your answer with at least three types of instructions.
7. (a) What do you mean by conditional operator and what is the use of it in decision control?  
(b) Two numbers are input through keyboard. Write a program to find the value of one number raised to the power of another.

8. (a) Write a function in C that can be used to find the value of two or more expressions.  
(b) Write a program to find the largest number among ten numbers.
9. Write notes on any **two** of the following:
- a) Case Control Structure.
  - b) Logical Operators.
  - c) Pointers.

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