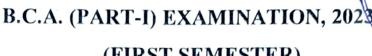
1478/I



(FIRST SEMESTER)

(BCA 104 : INTRODUCTION TO COMPUTER PROGRAMMING IN 'C')

Paper: IV

Time: Three Hours]

[Maximum Marks: 70

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

- (ii) Question No. 1 is compulsory.
- (iii) Answer remaining four questions, from Section A and B but not more than two questions from each Section.
- (iv) All questions carry equal marks.
- (v) Symbols have their usual meanings.
- 1. Answer all parts of the following:
 - (a) What do you mean by algorithm? List down its characteristics, give an example of algorithm to support your answer.
 - (b) What is significance of stdio.h and conio.h in C programming?
 - (c) Give the output of the following with explanation:

 \neq include < stdio. h >

```
void main()
               int i = 65;
             char j = 'A';
       if (i == j)
             print f ("Good Morning");
      else print f("Good Evening");
       What will be the output of the following:
(d)
       ≠ include < stdio. h >
      void fun (iut, int);
      void main()
      {
             int i = s, j = 2;
             fun (i, j);
             print f "In % d % d", i, j);
      {
      Void fun (C int x, int y)
                    x = x * x;
                    y = y * y;
      Give explanation also
```

Section-A

- 2. Give the structure of a simple C program. What are conditional statements in C? Give example to explain your answer.
- 3. What are loops in C? What are "entry controlled" and "Exit Controlled" loops in C?
- 4. What are function in C? Give the need of functions in C. Explain the following for functions:
 - (i) Prototype declaration
 - (ii) Function definition
 - (iii) Calling of function
- 5. What is array in C? Explain the memory representation of one-dimensional and two dimensional array.

Section-B

- 6. (a) Write a program in C to find the greatest number among three numbers.
 - (b) What do you mean by recursive function? Give an example of recursive function in C.
- 7. (a) Write a program in C to find out the prime factors of a given number.
 - (b) How can we get more than one value returning from a function in C? Explain with example.

- 8. (a) How can we pass a given array to a function in C?
 - (b) Write a program in C to store 10 integer get third highest number among them.
- 9. Write notes on any two of the following:
 - (a) Pointers
 - (b) Structure
 - (c) File handling in C
 - (d) Data types in C

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