

First Semester B.C.A. Degree Examination
October / November 2018
(2016-17 Syllabus)

BCA 430 : C - PROGRAMMING

Time : 3 Hours

Max. Marks : 80

I. Answer the following.

1x5=5

1. What is a token ?
2. What is the value of i at the end of the loop.

```
i = 1;
while (i<=10)
{
    i++;
}
```

3. Name the keyword used to break the control flow in a loop.
4. What is an array ?
5. What is meant by a constant ?

II. Answer any FIVE of the following:

15x5=75

6.
 - a) Explain any five features of 'C' language.
 - b) Explain with program example, the basic structure of 'C' program.
 - c) Explain in detail the primary data types available in 'C'. **(5+5+5)**
7.
 - a) Explain the following:
 - i) Arithmetic Operators
 - ii) Relational Operators
 - b)
 - i) List any four mathematical functions.
 - ii) Write a note on unformatted I/O functions.
 - c) Explain precedence and associativity of Operators. **(5+2+3+5)**
8.
 - a) What is meant by decision making ? Explain if, if-else statements with syntax and example.
 - b) Explain Switch Statement with an example.
 - c) Write a note on:
 - i) go to ii) continue iii) ?operator iv) infinite for loop **(5+5+5)**

9. a) Differentiate between entry check and exit check loops.
b) With an example, explain different types of for loops.
c) Write a C-program to add two matrices. **(5+5+5)**
10. a) With an example, explain different types of arrays.
b) What is a string ? How do you declare and initialize string variables ? Explain with an example.
c) Write a note on any five string handling functions. **(5+5+5)**
11. a) What is meant by a function ? Explain different types of functions.
b) Explain nesting of functions with an example.
c) Write a C program to demonstrate parameter passing. **(5+5+5)**
12. a) Explain dynamic memory allocation with an example.
b) What is a structure ? Explain with its syntax and example.
c) Explain command line arguments. **(5+5+5)**

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