



First Year (F.Y.B.C.A.Science)
BCA-11102: C Programming

(Semester I)

Program: BCA
Program Specific: BCA(Sci)
Course Type: Major 2
Paper: II

Credits: 2
Time: 2 Hours
Max. Marks: 30
SET: A

Instructions to the candidate:

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.
- 3) Draw a well labelled diagram wherever necessary

Section - A

Q1) Answer the following

[5 X 1= 5]

1. What is the return type of a function that doesn't return any value in C?
2. List basic data types in C.
3. What is syntax of conditional operator?
4. What is use of getchar () function?
5. Which operator is used for assigning a value to a variable in C.

Section - B

Q2) Answer the following (Attempt any 5)

[5 X 2 =10]

1. Define 1) Flowchart 2) Algorithm
2. Explain increment and decrement operators in C?
3. What will be the output of following program?

```
#include<stdio.h>
```

```
int main()
```

```
{ int i=1;
```

```
for(i=1;i<=5;i++)
```

```
{
```

```
if(i==3)
```

```
        {
            continue;
        }
        printf("%d \n",i);
    }
    return 0;
}
```

4. Explain control statements in C?
5. What is an infinite loop and how can you create one in C?
6. What is a variable in C?
7. What is function recursion in C?

Section - C

Q3) Answer the following/Write short notes on following (Attempt any 2) [2 X 5= 10]

1. Write an algorithm to find maximum of three numbers. Write program for same.
2. Illustrate with an example difference between while and do while loop.
3. What is a function? What are types of function? Explain user defined function with example.
4. Write short note on Array.

Section - D

Q4) Answer the following (Attempt any 1) [1X 5 = 5]

1. Explain with example nested if statement in C.
2. Define an identifier? State the rules for naming identifiers.
