

Ajay Kumar Garg Engineering College, Ghaziabad

Department of CSE

Sessional Test-2

Course:	B.Tech	Semester:	Ist
Session:	2017-18	Section:	ME-1,2,3, CE-1,2, EC-1,2,3
Subject:	Computer System & Programming in C	Sub. Code:	RCS-101
Max Marks:	50	Time:	2 hour

Note : Answer all the Sections.

Section-A

(5 X 2 = 10)

A. Attempt all the parts.

- (1) Differentiate between break and continue statement.
- (2) Differentiate between while and do-while loop.
- (3) What is operator precedence and operator associativity.
- (4) WAP to print all the multiples of 7 between 1 to 100.
- (5) Find the output of the following program:

```
int a;
for( a=1 ; a<=5 ; a++);
{
    printf( "%d" , a);
}
```

Section-B

(5 X 5 = 25)

B. Attempt all the parts.

- (6) Explain different fundamental data types in terms size, range and format specifiers.
- (7) Define recursive function. WAP to print the factorial of a given number using recursion.
- (8) What is storage class? Explain different types of storage classes.
- (9) What is a function? Explain different ways of passing values to a function with example.
- (10) WAP to calculate the sum of the following series: (take value of x from user)

$$x - \frac{x^2}{2} + \frac{x^3}{3} - \frac{x^4}{4} + \frac{x^5}{5} - \frac{x^6}{6} \dots \dots \dots + \frac{x^n}{n}$$

Section-C

(2 X 7.5 = 15)

C. Attempt all the parts.

- (11) Explain different types of operators in detail with suitable example.
- (12) (a) WAP to convert a binary number into decimal number using function. [4]
(b) WAP to print the following pattern: [3.5]

```
5
5 4
5 4 3
5 4 3 2
5 4 3 2 1
```

24/11/20