Mid Semester Test

B.Sc. (Hons.) First Semester(Major/Minor)
Paper: CSCMJ11/CSCMN11: Introduction to Programming using C

Max. Marks: 20

Max. Time: 1:00 hour

1. What will be the output of following codes? Explain your answer with proper reason **(2x4=8)**

    a.
```c
void main()
{
float a = 5.0, b = 2;
int c;
c = a%b;
printf ("%d", c ) ;
}
```

    b.
```c
void main()
{
    int i = 0, z = 12;
    if( i = 0 || z > 50)
        printf("Hello");
    else
        printf("Bye");
}
```

    c.
```c
void main()
{
int a=15,b=13,c=16,x,y;
x=a-3%2+c*2/4%2+b/4;
y=a/b+5-b+9;
printf ("x = %d, y = %d\n", x, y) ;
}
```

    d.
```c
void main()
{
int a=0,b=1,c;
c= a++ + --b;
printf ("a= %d, b=%d, c =%d\n",a,b,c);
}
```

2. Draw a flow chart for finding largest number among three numbers A, B and C. (4)

3. What is the significance of **break** keyword in a *switch case statement*? What will happen in absence of *break* keyword? Explain with example. (4)

4. Write a program for printing sum of squares of the digits of a given integer N. (4)
    (if N=235 the print $S=2^2+3^2+5^2= 38$)