

**Q1.** Explain the following terms, in brief:

- (a) Source Code (b) Debugging  
(c) Preprocessor Directives (d) Compiler

**Q2.** Evaluate the following expressions:

- (a)  $2 * 7 / 3 + 4 / 2 / 5 * 9 - 1$   
(b) `++j || k++ && m--` where  $j = -1, k = 0, m = 5$

**Q3.** Write a program that reads an integer number named  $n$ , and generates the Fibonacci series up to the term less than or equal to  $n$ . Marks will be given only if it is error free.

**Q4.** What is the output of following programs? Explain.

(a) 

```
#include<stdio.h>
void main()
{
    int x=1;
    do while(x<=10)
    {x++;
    }while(x<=5);
    printf("\nx=%d" ,x);
}
```

(b) 

```
#include <stdio.h>
void main() {
    int i=0;
    for(;i<=10;i++) {
        if(i%2)
            continue;
        printf("&d\n",i);
        i++;
    } }
```

(c) 

```
#include<stdio.h>
void main()
{
    int i,j,k,x=0;
    for(i=0;i<5;++i) {
        for(j=0;j<i;++j) {
            k = (i+j-1);
            if(k%2==0)
                x+=k;
            else
                if(k%3==0)
                    x+=k-2;
        } }
    printf("\nx=%d",x); }
```

(d) 

```
#include<stdio.h>
void main()
{
    int x,y,z;
    y=2;
    x=2;
    x=2*y++;
    z=2*++y;
    printf("\nx=%d,y=%d,z=%d",
    x,y,z);
}
```

**Q5.** (a) What are the different ways to assign a value to a variable?

(b) Explain the usage of *break* and *continue* statements.