

(Operators)

Q1. Define the terms associativity and precedence.

Q2. If a=50, b=10 and c=20, evaluate the following complex expression:

$c += (a > 0 \ \&\& \ a \leq 10) ? ++a : a/b;$

Q3. Identify the wrong expression from the following expressions and find the values of the correct expressions, if i=4, j=2, k=6, a=2 and n=8.

- i.) $p = ++-k;$ ii.) $a = - ++k/2;$ iii.) $m = ++i - -k;$
iv.) $a = 2b++;$ v.) $- -n++$

Q4. In the following expression write the hierarchy of computation and also mention the type of operator:

$a * x * x + b * c / d >= x \ \&\& \ z != 15.0$

What will be the output of following program? (Q 5-9)

Q5. `#include<stdio.h>`

```
void main()
{
    int a=2, b=10, k, c;
    k=! ((a<2) && b>2));
    printf("%d\n",k);
    c= (b<a || b>a);
    printf("%d",c);
}
```

Q6. `#include<stdio.h>`

```
void main()
{
    int b,k=8;
    b=(k++-k++-k--,k++);
    printf("%d",b);
}
```

Q7. `#include<stdio.h>`

```
int main()
{
    int a = 2,b = 5;
    a = a^b;
    b = b^a;
    printf("%d %d",a,b);
    return 0;
}
```

Q8. `#include <stdio.h>`

```
void main()
{
    int x = 1, y = 0, z = 5;
    int a = x && y || z++;
    printf("%d", z);
}
```

Q9. `#include <stdio.h>`

```
void main()
{
    int x = 1, y = 0, z = 5;
    int a = x && y && z++;
    printf("%d", z);
}
```