

1. What is the value of x after the following code?

```
int x = 5;
```

```
x++;
```

A) 4

☒ B) 6

B) 5

D) 7

Ans:- $x = 5 + 1 = 6$

2. What is printed?

```
int x = 10;
```

```
printf("%d", ++x);
```

A) 9

☒ C) 11

B) 10

D) Compiler error

Ans:- $x = 10 + 1 = 11$

3. What is printed?

```
int x = 10;
```

```
printf("%d", x++);
```

A) 9

C) 11

☒ B) 10

D) 12

Ans:- 10

4. What is the final value of x?

```
int x = 3;
```

```
int y = ++x + x++;
```

A) x = 4

C) x = 6

☒ B) x = 5

D) x = 7

Ans x becomes 5

5. What is the value of y in the previous question?

A) 4

☒ B) 8

C) 9

D) 10

Ans:- $y = 4 + 4 = 8$

$++x = 4, x++ = 4$

$4 + 4 = 8$

6. What are the post-decrement do?

☒ A. Decreases after using the value

B. Decreases before using the value

C. Increase before using the value

D. No effect

7. What is printed?

```
int x = 5;
```

```
printf("%d", --x);
```

A) 3

C) 5

~~B) 4~~

D) 6

Ans:- $x = 5 - 1 = 4$

8. What is printed?

```
int x = 5;
```

```
printf("%d", x--);
```

A) 3

~~B) 4~~ ☒ 5

B) 4

D) 6

9. Which operator has higher precedence?

A. post-increment

B. pre-increment

☒ C. They have equal precedence

D. Addition.

10. What is the output?

A. 6 B. 8 C. 9 ~~D. Undefined.~~

```
int x = 2;
```

```
int y = x++ * ++x;
```

Ans:- undefined behavior in C/C++

11. What is printed?

```
int x = 7;
```

```
printf("%d", ++x + 2);
```

~~A) 8~~

☒ 10

B) 9

D) 11

Ans:- $x = 7 + 1 = 8 + 2 = 10$

12. What is printed?

```
int x = 4;
```

```
printf("%d %d", x++, ++x);
```

~~A) 4 6~~

C. 5 5

B) 4 5

~~D. Undefined.~~

13. Which is valid?

~~A. ++(x+1)~~

~~B. (x++)++~~

☒ C. ++x

D. x++++

14. What is the final value of x?

```
int x = 10;
```

```
x = x++ + ++x;
```

A) 20

B) 21

☒ C) Undefined

D) 22

15. What happens if you use ++ on a constant?

```
++10;
```

A) 11

B) 10

C) valid but meaningless

☒ D) Compiler-time error

16. What is printed?

```
int x = 1;
```

```
printf("%d", x++ + x++);
```

A) 2

B) 3

C) 4

☒ D) Undefined

17. Which operator modifies the variable?

A) x++

B) x+=1

C) ++x

☒ D) Both B and C

18. What is the final value of x?

```
int x = 0;
```

```
x++;
```

```
++x;
```

```
x--;
```

A) 0

☒ B) 1

C) 2

D) -1

19. Which one is Equivalent to x = x++?

A) ++x

B) x++

☒ C) Both

D) None

20. What is printed?

```
int x = 5;
```

```
printf("%d", --x - x--);
```

A) 0

B) 1

C) -1

☒ D) undefined

2. Program to find maximum Between two numbers using nested if?

1. #include <stdio.h>

int main()

{

int a, b;

printf("Enter two numbers:");

scanf("%d %d", &a, &b);

if (a != b) {

if (a > b) {

printf("%d is greater.\n", a);

}

else {

{

printf("%d is greater.\n", a);

}

else {

{

printf("Both numbers are Equal.\n");

}

return 0;

~~getch();~~

}

2. Program to find maximum among three numbers using nested if ?

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

```
int main()
```

```
{
```

```
    int a, b, c;
```

```
    printf("Enter three numbers: ");
```

```
    scanf("%d %d %d", &a, &b, &c);
```

```
    if (a > b)
```

```
    {
```

```
        if (a > c)
```

```
        {
```

```
            printf("%d is the greatest.\n", a);
```

```
        }
```

```
    else
```

```
    {
```

```
        printf("%d is the greatest.\n", c);
```

```
    }
```

```
    else
```

```
    {
```

```
        if (b > c)
```

```
        {
```

```
            printf("%d is the greatest.\n", b);
```

```
        }
```

```
    else
```

```
    {
```

```
        printf("%d is the greatest.\n", c);
```

```
    }
```

```
    return 0;
```