

① What is the output of the following code?

```
int a = 5;  
printf("%d", ++a);
```

- A. 4
- B. 5
- C. 6
- D. Error.

② What does the expression $a++$ do?

- A. Increments a before using it
- B. Increments a after using it
- C. Decrement a before using it
- D. Causes compilation error.

③ What is the output?

```
int a = 10;  
printf ("%d", a--);
```

- A. 10
- B. 9
- C. 11
- D. Error.

④ What is the output?

C

```
int a = 3;  
int b = ++a + a++;  
printf("%d", b);
```

- A. 7
- B. 8
- C. 9
- D. Undefined.

⑤ Which operator has higher precedence?

- A. ++
- B. --
- C. *
- D. Both ++ and -- equally.

⑥ What is the output?

C

```
int a = 5;  
if (++a == 6)  
    printf("True");  
else  
    printf("False");
```

- A. True
- B. False
- C. Error
- D. Undefined.

⑦ What is the output?

C
int a = 7;
if (a == 7)
 printf("A");

else
 printf("B");

A. A

B. B

C. 7

D. Error.

⑧ What is the result of:

C
int a = 2;
int b = a++ * ++a;

A. 6

B. 8

C. 4

D. undefined behavior

⑨ choose the correct statement.

A. ++a increments before usage

B. a++ increments after usage

C. Both A and B

D. None

10) What is the output?

C

```
int x=5;  
if (x++ > 5)  
    printf ("Hi");  
else  
    printf ("Bye");
```

- A. Hi
- B. Bye
- C. Error
- D. Undefined.

11) Output?

C

```
int x=1;  
if (++x && x--)  
    printf ("%d", x);  
else  
    printf ("0");
```

- A. 1
- B. 2
- C. 0
- D. Undefined.

12. Output?

C

```
int x=4;  
if (--x || ++x)  
    printf("Yes");  
else  
    printf("No");
```

- A. Yes
- B. No
- C. Error
- D. Undefined

13. What is the output?

C

```
int x=3;  
int y=x++ + ++x;  
printf("%d", y);
```

- A. 7
- B. 8
- C. 9
- D. undefined.

14. Output?

C

```
int x=0;  
if (x-- < 4 x++)  
    printf("Hello");  
else  
    printf("World");
```

- A. Hello
- B. World
- C. Error
- D. Undefined.

15) Output?

C

```
int a=5;  
int b=10;  
if (a++ <-- b)  
    printf("A");  
else  
    printf("B");
```

- A. A
- B. B
- C. Error
- D. Undefined

16) What is the output?

C

```
int a = 1;  
int b = 2;  
if (++a == b--)  
    printf ("Equal");  
else  
    printf ("Not Equal");
```

- A. Equal
- B. NOT equal
- C. Error
- D. Undefined.

17) Output of the code :

```
c  
int a=5;  
if (a++ == ++a)  
    printf("Yes");  
else
```

- A. Yes
- B. NO
- C. Error
- D. Undefined behavior.

18. The expression $--a$ does :

- A. Decrements a after usage
- B. Decrements a before usage
- C. Increments before usage
- D. Causes Error.

19) Output?

C

```
int a = 4;  
int b = 4;  
if (a++ && --b)  
    printf ("%d", a+b);  
else  
    printf ("0");
```

A. 7

B. 8

C. 9

D. 0.

20) choose the correct statement about increment operator

- A. They cannot be used inside conditional statements
- B. They can be used inside conditions.
- C. They cause errors always
- D. They are slower than arithmetic operators.

Q) Program to find maximum between three using
Nested if.

```
#include <stdio.h>

int main() {
    int x,y,z;
    printf("Enter three numbers:");
    scanf("%d %d %d", &x, &y, &z);

    if (x>=y) { // first comparison
        if (x>=z)
            printf("maximum = %d", x);
        else
            printf("maximum = %d", z);
    }
    else { // if y is greater than x.
        if (y>=z)
            printf("maximum = %d", y);
        else
            printf("maximum = %d", z);
    }
    return 0;
}
```