

② Program to find maximum between 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 maximum.\n", a);
```

```
        } else {
```

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

```
        }
```

```
    } else {
```

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

```
printf("%.1d is the maximum.\n", b);
```

```
} else {
```

```
    printf("%.1d is the maximum.\n", c);
```

```
}
```

```
}
```

```
return 0;
```

```
}
```

① prepare some Q's of increment / decrement operations and conditional statements.

1. what is the output of the following code?

C

```
int a = 5;
```

```
printf("%.d", a++);
```

A) 4 B) 5 C) 6 D) ERROR

Ans:- B = 5

2. what is the value of a after execution?

C

```
int a = 10;
```

```
a--;
```

A) 9 B) 10 C) 11 D) 8

Ans:- A = 9

3. what is printed?

C

```
int a = 3;
```

```
printf("%.d", ++a);
```

A) 3 B) 4 C) 5 D) ERROR

Ans:- B = 4

4. which executes first in a++?

A) increment B) value used in expression.
C) Both simultaneously D) depends on compiler

Ans:- B = value used in expression.

5. output?

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

A) 11 B) 12 C) 13

D) undefined behaviour.

Ans:- D=undefined behaviour

6. which of the following is a conditional operator?

A) && B) ?: C) == D) <>

Ans:- B = ?:

7. output?

```
c
int a=2, b=3;
if (a>b)
    printf("A");
else
    printf("B");
```

A) A B) B C) AB D) NO output!

Ans:- B = B

8. what is the output?

```
c
int x=1;
if (x--)
    printf("yes");
else
    printf("NO");
```

A) yes B) NO C) 0 D) 1

Ans:- A = yes

9. which operator has the highest precedence?

A) ++ B) && C) == D) =

Ans:- A = ++

10. output?

```
c
int a=0;
if (++a)
    printf ("Hello");
else
    printf ("Hi");
```

A) Hello B) Hi C) 0 D) Error.

Ans:- A = Hello

11. output?

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

A) 5 7 B) 6 7 C) undefined behaviour D) 5 6

Ans:- D) 5 6

12. output of this code:

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

A) True B) False C) Error D) No output.

Ans:- B = False

13. Output?

```
c
int a=10;
if (--a == 10)
    printf ("yes");
else
    printf ("No");
```

A) yes B) No C) error D) undefined.

Ans:- B = No

14. Ternary operator format is:

- A) condition? expr 1: expr 2
- B) expr 1: expr 2? condition
- C) condition: expr 1? expr 2
- D) None.

Ans:- A = condition? expr 1: expr 2

15. output ?

C

```
int x = 5;
```

```
int y = (x++ > 5) ? 10 : 20;
```

```
printf("%d", y);
```

A) 10

B) 20

C) 5

D) ERROR.

Ans:- A = 10

16. output?

C

```
int i = 1;
```

```
while (i-- > 0)
```

```
printf("A");
```

A) A

B) AA

C) no output

D) Infinite loop.

Ans:- B = AA

17. which is correct?

A) ++a increase after use

B) a++ increase a before use

C) ++a increase a before use.

D) a++ increases a twice.

Ans:- C = ++a increase a before use

18. which of the following is NOT a relational operator?

A) ==

B) !=

C) >=

D) &&

Ans:- D = &&

19. output?

C

```
int a=0, b=1;
```

```
if (a++ && b++)
```

```
    printf ("X");
```

```
else
```

```
    printf ("Y");
```

A) X

B) Y

C) Error

D) 1

Ans:- A = X

20. output?

C

```
int a=3, b=4;
```

```
printf ("%d", a++ * ++b);
```

A) 12

B) 16

C) 15

D) undefined.

Ans:- B = 16.