

1. Prepare 20 mcq's on increment, decrement operator

2. Programme to find maximum between three numbers using nested if.

1. what is the value of x after the statement $x=5; x++$

a) 4

b) 5

c) 6

d) 7

Ans c) 6.

2) which operator represents post-increment

a) $x++$

b) $x++$

c) $--x$

d) $x--$

Ans b

3) what is the output of : $\text{int } a=10; \text{ printf}("%d", ++a);$

a) 8

b) 9

c) 10

d) 11

Ans d

4) what is the output of $\text{int } a=10; \text{ printf}("%d", a++);$

a) 10

b) 11

c) 12

d) 9

Ans a

5) which operator decreases the value of a variable before use?

- a) $a--$
- b) $--a$
- c) $++a$
- d) $a++$

Ans b) $--a$

6) what is the final value of a after
 $\text{int } a=5; a = ++a + a++;$

- a) 11
- b) 12
- c) 13

d) undefined behavior

Ans d

7) $x=7; y=x--$; what is the value of y

- a) 6
- b) 7
- c) 8
- d) 5

Ans b

8) which operator increases the value and then uses it

- a) $x++$
- b) $++x$
- c) $x--$
- d) $--x$

Ans b

a) what is the output: $\text{int } x=3; \text{ printf}("%d", --x);$

- a) 1
- b) 2
- c) 3
- d) 4

Ans b

10) which is correct syntax?

a) $x++$

b) $x++$

c) $++x$

d) $++x$

Ans d

11) what is the value of x after: `int x=5; x=x+++++7;`

a) 11

b) 12

c) Undefined behavior

d) 13

Ans c

12) what is the output: `int a=4;`

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

a) 4 6

b) 5 6

c) Undefined behavior

d) 4 5

Ans c

13) post-decrement means:

a) decrease first, use later

b) use first, decrease later

c) increase first

d) increase later

Ans b

14) `int a=10; --a;` value of a is?

a) 10

b) 9

c) 11

d) 8

Ans b

15) which statement is true?

- a) $++a$ means $a = a + 2$
- b) $a++$ means $a = a + 1$
- c) $--a$ means $a = a - 2$
- d) $a--$ means $a = a$

Any b

16) what is the output?

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

- a) 5
- b) 6
- c) Undefined behavior.
- d) 4

Any c

17) $x = 5$, $y = ++x$; value of x and y

- a) $x = 5$, $y = 6$
- b) $x = 6$, $y = 5$
- c) $x = 6$, $y = 6$
- d) $x = 5$, $y = 5$

Any c

18) Increment and decrement operators can be applied to

- a) Integers only
- b) float only
- c) pointers
- d) all of the above

Any d

19) which statement is true for $x++$

- a) value changes immediately
- b) value changes after expression is evaluated
- c) value remains same.
- d) Undefined always

Any b

20) what is the output: `int a = 1;`
`printf ("%d", a++ + a++);`

a) 2

b) 3

c) Undefined behavior.

d) 4

Ans c.

2) Programme 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("Maximum = %d", a);
```

```
        } else {
```

```
            printf("Maximum = %d", c);
```

```
        }
```

```
    } else {
```

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

```
            printf("Maximum = %d", b);
```

```
        } else {
```

```
            printf("Maximum = %d", c);
```

```
        }
```

```
    }
```

```
    return 0;
```

```
}
```