

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;
```

```
}
```