

1) Prepare 20 MCQ's on increment decrement operator.

Multiple Choice Questions

1. Which operator is used to increase the value of a variable by 1? a) --

a) --

b) ++

c) +=

d) ** =

2) Which operator is used to decrease the value of a variable by 1?

a) ++

b) --

c) -=

d) ==

3) What is the output of the following code?

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

a) 4 b) 5 c) 6 d) 0

4) What is the result after executing:

```
int a=10; a--;
```

a) 9 b) 10 c) 11 d) 8

5) In C, the increment operator ++ a is known as:

- a) Post - increment
 - ~~b) Pre - increment~~
 - c) Post - decrement
 - d) Pre - decrement
- 6) In c, the decrement operator `--` is known as:

- a) Pre - decrement
 - ~~b) Post - decrement~~
 - c) Pre - increment
 - d) Post - increment
- 7) What is the output?

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

- a) 4 b) 5 ~~c) 6~~ d) 7

- 8) What is the output?

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

- a) 4 b) 5 c) 6 d) 7

- ~~b) 5~~

c) 6

d) 7

- 9) What is the output?

```
int a = 7; printf("%d", --a);
```

- ~~a) 6~~ b) 7 c) 8 d) 9

10) What is the output?

```
int a = 7; printf("%d", a--);
```

- a) 6 ~~b) 7~~ c) 8 d) 9

11) Which operator has higher precedence?

- a) ++ b) -- ~~c) Both ++ and --~~ d) =

12) Choose the correct description of ++;

- a) Increment first, use later
~~b) Use first, increment later~~

c) Decrement value

d) None.

13. What is the output?

```
int a = 3; b; b = ++a;
```

a) b = 4, a = 4

b) b = 3, a = 3

~~c) b = 3, a = 4~~

d) b = 4, a = 3

14) What is the output?

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

- ~~a) b = 4, a = 4~~ b) b = 3, a = 3 c) b = 3, a = 4 d) b = 4, a = 3

15) Which of the following is valid usage of increment operator?

a) ++(a+b)

b) .a++++

☒ c) ++a

d) ++10

16) What is the output?

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

a) 11

☒ b) 12

c) 10

d) 13

17) The decrement operator cannot be applied

a) Integer variables b) float variables

☒ c) Constants d) Character variables

18) What is the output?

```
char c = 'A'; c++; printf("%c", c);
```

a) A

☒ b) B

c) C

d) D

19) Which statement is true?

- a) ~~Pre-increment increments value before usage~~
- b) Post-increment decrements value
- c) Pre-decrement increments increases value.
- d) None.

20) What is the output?

```
int a=4; printf ("%d", &a);
```

- a) 4 5 b) 5 6 c) ~~4 6~~ d) 6 4

2] Programme to find Maximum Between three Numbers Using Nested if.

Aim:

to write a C program that reads three numbers and finds the Maximum number among them using nested if-else statements.

Algorithm:

1. start the program.
2. Declare three variables a, b and c
- 3) Read three numbers from the user.
- 4) Use nested if conditions to compare the numbers.

- If a is greater than b, then Check:
 - ⇒ If a is also greater than c, then a is the largest
 - ⇒ Else, c is the largest
 - ⇒ Else check:
 - ⇒ If b is greater than c, then b is the largest
 - ⇒ Else c is the largest.
- 5) Display the Maximum number.
- 6) stop the program.

C Program 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("a is the largest\n");
        }
        else
        {
            printf("c is the largest\n");
        }
    }
    else
    {
        if (b > c)
        {
            printf("b is the largest\n");
        }
        else
        {
            printf("c is the largest\n");
        }
    }
}
```

```

    printf ("Maximum number = %d", a);
}
else.
{
    if (b > c)
    {
        printf ("Maximum number = %d", c);
    }
    else
    {
        if (b > c)
        {
            printf ("Maximum number = %d", b);
        }
        else
        {
            printf ("Maximum number = %d", c);
        }
    }
    getch();
}

```

Out Put :

Enter three numbers : 20 45 10

Maximum number = 45