

ASSIGNMENT 2

DATE:21-11-2025

1)Prepare 20 MCQ'S on increment and decrement on conditional statements.

1. What will be the output of the following code?

```
int a = 5;
```

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

A) 4

B) 5

C) 6

D) 7

Answer: C

2. What is the output?

```
int a = 5;
```

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

A) 5

B) 6

C) Error

D) Garbage

Answer: A

3. What is the final value of a?

```
int a = 10;
```

```
a++;
```

```
++a;
```

- A) 10
- B) 11
- C) 12
- D) 13

Answer: C

4. Output?

```
int a = 5, b = 6;  
printf("%d", a++ + ++b);
```

- A) 11
- B) 12
- C) 13
- D) 14

Answer: C

(5 + 7)

5. Output?

```
int x = 3;  
if(++x == 4)  
    printf("Yes");  
else  
    printf("No");
```

- A) Yes
- B) No
- C) Compilation error
- D) Runtime error

Answer: A

6. Output?

```
int x = 3;  
if(x++ == 4)  
    printf("True");  
else  
    printf("False");
```

- A) True
- B) False
- C) Compilation error
- D) None

Answer: B

7. What is the output?

```
int a = 5;  
if(--a == 4)  
    printf("OK");
```

- A) OK
- B) No output
- C) Error
- D) None

Answer: A

8. Final value of x?

```
int x = 2;  
if(x-- > 2)  
    x++;
```

- A) 1
- B) 2
- C) 3
- D) 0

Answer: A

9. Output?

```
int a = 4;
```

```
if(a++ == 4)
```

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

A) 3

B) 4

C) 5

D) No output

Answer: C

10. Output?

```
int a = 5, b = 5;
```

```
if(a++ == ++b)
```

```
    printf("Equal");
```

```
else
```

```
    printf("Not Equal");
```

A) Equal

B) Not Equal

C) Error

D) 5

Answer: B

(a++ → 5, ++b → 6)

11. Output?

```
int x = 1;
```

```
if(++x && x++)
```

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

- A) 1
- B) 2
- C) 3
- D) 4

Answer: C

12. Output?

```
int x = 0;
```

```
if(x++ || ++x)
```

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

- A) 0
- B) 1
- C) 2
- D) 3

Answer: C

(x++ is 0 → false, so ++x executes → x becomes 2)

13. Output?

```
int x = 5;
```

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

- A) 10
- B) 11
- C) 12
- D) Undefined

Answer: D

(Sequence point violation)

14. Output?

```
int a = 1;
if(a-- > 0)
    printf("%d", a);
```

- A) 1
- B) 0
- C) -1
- D) No output

Answer: B

15. Output?

```
int a = 10;
if(a++ > 10)
    printf("A");
else
    printf("B");
```

- A) A
- B) B
- C) 10
- D) 11

Answer: B

16. Output?

```
int a = 3;
int b = 4;
if(++a == b--)
    printf("%d %d", a, b);
```

- A) 3 4
- B) 4 4
- C) 4 3
- D) No output

Answer: C

17. Output?

```
int a = 6;  
if(--a == 5 && a++ == 5)  
    printf("Yes");  
else  
    printf("No");
```

- A) Yes
- B) No
- C) Error
- D) None

Answer: A

18. Output?

```
int x = 7;  
if(x++ == 8 || --x == 7)  
    printf("OK");
```

- A) OK
- B) No output
- C) Error
- D) 8

Answer: A

19. Output?

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

- A) 5
- B) 6
- C) 7
- D) 8

Answer: C

20. Output?

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

- A) 0
- B) 1
- C) -1
- D) No output

Answer: A

2) Program to find maximum between three numbers using nested if.

```
#include<stdio.h>

int main()
{
    int a,b,c;
    printf("Enter the three numbers:");
    scanf("%d %d %d",&a,&b,&c);
    if(a>c && b>c)
    {
```



```
    if(a>b)
    {
        printf("a=%d is greater",a);
    }
    else
    {
        printf("b=%d is greater",b);
    }
}
else
{
    printf("c=%d is greater",c);
}
return 0;
}
```