1. int a = 5, b;

   b = a++;

   what are the values of a and b after the execution of these statements?

   a) a = 5, b = 5

   b) a = 6, b = 5

   c) a = 5, b = 6

   d) a = 6, b = 6

   Answer :- (b) a = 6, b = 5

2. what will be the output of the following code?

   ```
   int X = 10;
   printf("%d %d \n", X++, ++X);
   ```

   a) 10 12

   b) 11 11

   c) 11 12

   d) the order of evaluation is unspecified, leading to potential variations.

   Answer :- (d)

3. what will be the output of the following code?

   ```
   int num = 7;
   if (num % 2 == 0) {
      printf(" Even\n");
   } else {
      printf("odd\n");
   }
   ```

   a) even

   b) odd

c) error

d) No output.

4. 
```c
int a =10 , b=20;
if (a>b) {
    if (b <15) {
    printf (" Hello\n");
    }
    else
    {
    printf("world\n");
    }
} else {
    printf("c programing \n");
}
```

Ans :- b) World

a) Hello

b) World

c) c programming

d) error

5. 
```c
int i =0;
if(i++ == 0) {
    i++;
} else {
    i--;
}
```

Ans :- c) 2

a) 0

b) 1

c) 2

d) -1

6) 
```c
int score = 75;
if (score >= 90) {
    printf( "Grade A\n");
} else if (score >= 70) {
```

```c
    printf ("Grade B \n");
} else if (score >= 50) {
    printf ("Grade c\n");
} else {
    printf ("Grade F\n");
}
```

a) Grade A

b) Grade B

c) Grade c

d) Grade F

Ans:- b) Grade B

7) 
```c
int j = 3;
int k = ++j * 2;
```

Ans:- b) 8

a) 6

b) 8

c) 7

d) 9

8) 
```c
int p = 5, q = 10;
if (p > 0 && q < 15) {
    printf ("condition met\n");
} else {
    printf ("Condition Not Met\n");
}
```

a) condition Met

b) condition Not Met

c) Error

d) No output

Ans:- a) Condition Met

9. 
```
int M = 1;
int n = m++ + ++m;
```
a) m=3, n=4

b) m=3, n=5

c) m=2, n=3

   m=2, n=4.

Ans:- b) m=3, n=5.

10. 
```
int main () {
    int x = 5;
    int y = --x;
    printf ("%d , %d ",x, y);

    return 0;

}
```
a) x=5, y=5

b) x=4, y=5          e)

c) x=4, y=4

d) x=5, y=4

Ans:- c). x=4, y=4

11. 
```
int a = 10;
int b = a--;
```
a) a=10, b=10

b) a=9, b=10

c) a=9, b=9

d) a=10, b=9

Ans:- b) a=9, b=10

12. 
```
int main() {
    int i = 3;
    printf("%d, %d", i--, --i);
    return 0;
}
```

a) 3 2

b) 2 3

c) 2 1

d) 3 1

Ans :- (d) 3 1

13. 
```
int main()
{
    int a = 1, b = 1, c;

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

a) a=1, b=1

b) a=2, b=1

c) a=1, b=2

d) a=2, b=2

Ans :- (b) a=2, b=1

14. 
```
int main()
{
    int a = 1, b = 1, d = 1;
    printf("%d, %d, %d", ++a + ++a + a++, a++ +
            ++b, ++d + d++ + a++);
}
```

a) 15, 4, 5

b) 9, 6, 9

c) 9, 3, 5

d) undefined

Ans:- (d) undefined

15) int main()
```
{
    int a = 10, b = 10;
    if (a = 5)
        b --;
    printf ("%d, %d"; a, b--);
}
```

a) a = 10, b = 9

b) a = 10, b = 8

c) a = 5, b = 9

d) a = 5, b = 8

Ans:- (c) a = 5, b = 9

16. int main()
```
{
    int i = 0;
    int j = i++ + i;
    printf ("%d\n", j);
}
```

a) 0

b) 1

c) 2

d) compile time error

Ans :- (b) 2

17) int main ()
    {
        int i = 2;
        int j = ++i + i;
        printf ("%d\n", j);

    }

a) 6
b) 5
e) 4
d) Compile time Error

   Ans :- a) 6


18  int main ()

    {
        int i = 2;

        i = i++ + i;

        printf ("%d\n", i);

    }

a) = operator is not a sequence point

b) ++ operator may return value with or without side
   effects

c) it can be evaluated as (i++)+i or i+(++i)

d) = operator is a sequence point

   Ans :- a) = operator is not a sequence point

19) What is the value of

```
in a = 3;
a = a++ + a--;
```

a) 6

b) 7

c) 8

d) 9

Ans:- b) 7

20) What is the value of int

```
int q = 8;
q = q-- ++ q + q -;?
```

a) 12

b) 13

c) 14

d) 15

Ans:- a) 12.

2A)
```
int main () {
    int num1, num2, num3;
    printf ("Enter three numbers: ");
    scanf ("%d %d %d", &num1, &num2, &num3);
if (num1 >= num2 && num1 >= num3) {
    printf ("the maxium number is : %d\n", num1);
}
else if (num2 >= num1 && num2 >= num3) {
    printf ("the maximum number is : %d\n", num2);
}
```

```c
    else {
        printf("the maxium number is: %d\n", num3);
    }
    return 0;
}
```

(or)

```c
# include <stdio.h>
int main (void) {
    int a, b, c, Max;
    printf ("Enter three numbers: ");
    scanf ("%d %d %d", &a, &b, &c);

    Max = (a>b) ? (a>c? a:c) : (b>c ? b:c);
    printf ("Largest of three numbers is %d\n", Max);
    return 0;
}
```