

1) What is the output of the following code?

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

- A) 5
- B) 6
- C) undefined behaviour.
- D) compilation error.

Correct Answer (A)

2) What is the output of the following code.

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

- A) 5
- B) 6
- C) undefined behaviour.
- D) compilation error.

Correct Answer (B)

3) In C, the expression  $i++$  is a post-increment operator the value of expression is the value of  $i$  before the increment takes place.

- A) True
- B) false.

Correct Answer:- A

4) In C, the expression  $++i$  is a pre-increment operation the value of the expression is the value of  $i$  after increment takes place.

- A) true.
- B) false

Correct Answer A.

5) What is the output of the following code?

```
int i = 10;
```

```
int j = i--;
```

`printf("i = %d, j = %d", i, j);`

A) `i = 10, j = 9.`

B) `i = 9, j = 10.`

C) `i = 9, j = 9.`

D) `i = 10, j = 10.`

Correct Answer: B.

6) What is the output of the following code?

```
int i = 10;
```

```
int j = --i;
```

```
printf("i = %d, j = %d", i, j);
```

A) `i = 10, j = 9.`

B) `i = 9, j = 10.`

C) `i = 9, j = 9.`

D) `i = 10, j = 10.`

Correct Answer: C.

7) Which of the following is an invalid use of the increment operator?

A) `i++;`

B) `++j;`

C) `(i+j)++;`

D) `k = i++;`

Correct Answer: C.

8) What is the value of `a` after the following code runs?

```
int a = 1;
```

```
a = a++;
```

A) 1

B) 2

C) undefined behaviour

D) 0

Correct Answer: C.

9) What is the output of the following code?

```
int count = 0;
while (count++ < 3) {
    printf("%d", count);
}
```

A) 012.

B) 123.

C) 1234.

D) 0124.

Correct Answer: B

10) What is the output of the following code?

```
int count = 0;
while (++count < 3) {
    printf("%d", count);
}
```

A) 012.

B) 123.

C) 12.

D) 01.

Correct Answer: C.

11) The increment and decrement operators have higher precedence than the arithmetic operators (+, -, \*, /).

A) True.

B) False.

Correct Answer: B.

12) What is the value of result after the following code runs?

```
int a = 2, b = 3;
```

```
int result = a++ * --b;
```

A) 6. C) 9

B) 8. D) 10

Correct Answer: A



13) What is the output

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

A) 557

B) 767

C) 757

D) undefined behaviour.

Correct Answer: D.

14) the Expression  $i++$  and  $i=i+1$  are always equivalent in all contexts.

A) True.

B) false.

Correct answer: B.

15) What is the value of  $i$  and  $j$  after the loop terminate  $int i=0, j=0;$

```
for (i=0; j<0;
```

```
for (i=0; i<3; i++){
```

```
    j+=i;
```

```
}
```

A)  $i=2, j=3$

B)  $i=3, j=3$

C)  $i=3, j=6$

D)  $i=4, j=6$

Correct Answer: B.

16) which operator has the lowest precedence among the following?

A)  $++$

B)  $-$

C)  $*$  (multiplication)

✓ D)  $=$  (assignment)

17) What will be the value of k?

```
int i=1, j=2, k=3;
```

```
k += i++ + j + 8;
```

A) 6

B) 7

C) 8

D) 9

Correct answer: C.

18) the increment and decrement operators can be overloaded in C.

A) True.

B) false.

Correct Answer: A.

19) If ptr is a pointer to an integer what does ptr++ do?

A) Increment the value at the address ptr points to

B) Increments the address stored in ptr by one byte

C) Increments the address stored in ptr by size of int

D) throws a compilation error.

Correct Answer: C.

20) what is the final value of a?

```
int a=0;
```

```
for (int i=0; i<8; i++) {
```

```
    a++;
```

```
}
```

A) 4

B) 5

C) 6

D) undefined

Correct Answer: B.