

1) What is the output of the following code?

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

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

• Ans: i++ is post increment. So value of i is first printed then increased by 1.

Correct answer (A)

2) What is the output of the following code.

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

- 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--;
```

Ques 7) ~~What will be the output of the following code?~~

- A) $i=10, j=9$.
- B) $i=9; j=10$.
- C) $i=9; j=9$.
- D) $i=10; j=10$.

Correct Answer: B. (Ans is not unique)

Ques 8) What is the output of the following code?

```
int i = 10;  
int j = -9;  
printf("%d, %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. (Ans is not unique)

Ques 9) Which of the following programs invalid use of the increment operator due to storage

- A) $i++;$
- B) $++j;$
- C) $(i+j)++;$
- D) $k = i++;$

Correct Answer: D. (Ans is not unique)

Ques 10) What is the value of a after the following code runs? ~~What will be 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. $a = a++$ is 0.

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): After each iteration of the loop

10) What is the output of the following code?

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

3.

- A) 012.
- B) 123.
- C) 12.
- D) 0.

Correct answer: C.

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

- A) True.
- B) False.

Correct answer: B. No storage stated (H)

12) What is the value of result after the following code runs? $\text{int } a=2, b=3;$

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

- A) 6. C) 9

- B) 8. D) -1

Correct answer: A.

- 13) What is the output of the following code?
- ```
int x=5;
print f ("y.d.y.d.y.d", x, x++);
```
- A) 557  
 B) 767.  
 C) 757.  
 D) undefined behaviour.
- Correct answer: D.

14) The expression  $p++$  and  $p = p + 1$  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 terminates?  $i=0, j=0;$

$\text{for } (i=0; j=0;$

$\text{for } (i=0; i < 3; i+1) \{$

$j+=i;$

$j.$

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 a=1, j=2, k=3;  
k+=a+j+g;

A) 6

B) 7

C) 8.

D) 9

Correct answer : C.

18) The increment and decrement operator(s) 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) increments 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+=i;

&lt;