

- ① 20 MCQ's of loops concept?
1. which loop is guaranteed to execute at least once?
- a) for loop
  - b) while loop
  - c) do-while loop
  - d) None of these.
- Ans:- c = do-while loop
2. what is the purpose of the break statement in a loop?
- a) to skip the current iteration.
  - b) to exit the loop immediately.
  - c) to restart the loop
  - d) to pause the loop.
- Sol:- b = to exit the loop immediately.

3. what is the syntax of a for loop in c?
- a) `for(int; condition; increment) {....}`
  - b) `for(int; increment; condition){....}`
  - c) `for(condition; int; increment){....}`
  - d) `for(increment; int; condition){....}`

Ans:- a = `(for init; condition; increment) {....}`

4. How many times will the following loop execute?

```
int i=0;  
while(i<5){  
    printf("%d", i);  
    i++;  
}
```

- a) 4
- b) 5
- c) 6
- d) infinite.

Ans:- b = 5

5. what is the output of the following code?

```
int i=0;  
do {  
    printf ("%d", i);  
    i++;  
} while (i<5);
```

- a) 0 1 2 3 4
- b) 1 2 3 4 5
- c) 0 1 2 3 4
- d) infinite loop.

Ans:- a = 0 1 2 3 4

6. which loop is best suited for iterating over an array?

- a). for loop
- b) while loop
- c) do-while loop
- d) none of the above.

Ans:- a = for loop

7. what is the purpose of the continue statement in a loop?

- a) To exit the loop immediately.
- b) To skip the current iteration.
- c) To restart the loop
- d) To pause the loop.

Ans:- b = To skip the current iteration.

8. How many times will the following loop execute?

```
int i=0;  
while (1) {  
    printf ("%d", i);  
    i++;  
    if (i==5) break;  
}
```

- a) 4
- b) 5
- c) 6
- d) Infinite.

Ans:- b = 5

9. what is the output of the following code?

```
int i=0;  
for (i=0; i<5; i++) {  
    printf ("%d", i);  
}
```

- a) 0 1 2 3 4
- b) 1 2 3 4 5
- c) 0 1 2 3 4 5

d) infinite loop

Ans:- a = 0 1 2 3 4

10. which loop is best suited for reading input from a file?

- a) for loop
- b) while loop
- c) do-while loop
- d) None of above

Ans:- b = while loop.

11. what is the syntax of a while loop?

- a) while (condition) { ... }
- b) while { ... } (condition);
- c) while (init; condition; increment) { ... }
- d) while (condition; init; increment) { ... }

Ans:- a = while (condition) { ... }

12. How many times will the following loop execute?

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

- a) 0
- b) 1
- c) infinite
- d) none of above.

Ans:- b = 1

13. What is the output of the following code?

```
int i=0;
for (i=0; i<5; i++) {
    if (i==3) continue;
    printf("%d", i);
}
```

- a) 0 1 2 4
- b) 0 1 2 3 4
- c) 0 1 2

d) Infinite loop.

Ans:- a = 0 1 2 4

14. Which loop is best suited for iterating over a linked list?

- a) for loop
- b) while loop
- c) do-while loop
- d) None of the above.

Ans:- b = while loop.

15. What is the purpose of the goto statement in a loop?

a) To exit the loop immediately.

b) To skip the current iteration

c) To restart the loop.

d) To jump to a labeled statement.

Ans:- d = To jump to a labeled statement.

16. How many times will the following loop execute?

```
int i=0;  
while (i<5){  
    printf ("%d", i);  
    i+=2;  
}
```

- a) 2
- b) 3
- c) 4
- d) infinite.

Ans:- b = 3.

17. what is the output of the following code?

```
int i=0;  
for (i=0; i<5; i++){  
    if (i==3) break;  
    printf ("%d", i);  
}
```

- a) 0 1 2
- b) 0 1 2 3
- c) 0 1 2 3 4
- d) infinite loop

Ans:- a = 0 1 2

18. which loop is best suited for implementing a game loop?

- a) for loop
- b) while loop
- c) do-while loop
- d) None of the above

Ans:- b = while loop.

19. what is the syntax of a do-while loop in C?

- a) do { ... } while (condition);
- b) do (condition) { ... } while;
- c) do { ... } (condition);
- d) do while (condition) { ... } .

Ans:- a = do { ... } while (condition);

20. how many times will the following loop execute?

```
int i=0;  
for (i=0; i<5; i++){  
    printf ("%d", i);  
}
```

- a) 4
- b) 5
- c) 6
- d) infinite.

Ans:- b = 5.