

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 exist the loop immediately.
- c) To restart the loop
- d) To pause the loop.

sol:- b = To exist 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 in c?

- 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.