

1. Which loop is guaranteed to execute at least once?

- a) for
- b) while
- c) do-while
- d) none

Answer: c

2. What is the correct syntax of a for loop in C?

- a) for (init; condition; increment)
- b) for (condition; increment; init)
- c) for (increment; init; condition)
- d) for (init; increment; condition)

Answer: a

3. Which loop checks the condition before executing the loop body?

- a) while
- b) do-while
- c) for
- d) Both a and c

Answer: d

4. A loop that never terminates is called:

- a) Running loop
- b) Infinite loop
- c) Static loop
- d) Nested loop

Answer: b

5. What is the output of:

```
int i=1;
while(i<3){
printf("%d ", i);
i++;
}
```

- a) 1 2
- b) 1 2 3
- c) 0 1 2
- d) None

Answer: a

6. What will this print?

```
for(int i=5; i>0; i--);
```

```
printf("Done");
```

- a) Done printed 5 times
- b) Done printed once
- c) Syntax error
- d) None

Answer: b (Because of the semicolon after for)

7. Which keyword is used to exit from a loop?

- a) exit
- b) stop
- c) break
- d) quit

Answer: c

8. Which keyword is used to skip the current iteration?

- a) skip
- b) break
- c) return
- d) continue

Answer: d

9. What does the following code print?

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

- a) 0 1 2 3 4
- b) 0 1 2
- c) 1 2 3
- d) None

Answer: b

10. How many times will the loop execute?

```
for(int i=1;i<=5;i++);
```

- a) 5
- b) 4
- c) Infinite
- d) 0

Answer: d (Because of semicolon – loop runs empty)

11. Nested loops mean:

- a) Loop inside another loop
- b) Loop after loop
- c) Loop without condition

d) Loop with break

Answer: a

12. Which loop is best for known number of iterations?

a) while

b) do-while

c) for

d) None

Answer: c

13. What is the output?

```
int i=3;  
do{  
printf("%d ", i);  
i--;  
}while(i>0);
```

a) 3 2 1

b) 3 2

c) 2 1

d) 3 2 1 0

Answer: a

14. Which is an entry-controlled loop?

a) for

b) while

c) do-while

d) Both a and b

Answer: d

15. What happens if loop condition is always false?

a) Loop executes once

b) Loop never executes

c) Infinite execution

d) Error

Answer: b

16. Which of the following is a valid loop?

a) for(;;)

b) while(1)

c) Both a and b

d) None

Answer: c

17. Which loop is suitable when user wants to continue based on condition checked after executing the loop body?

a) for

- b) while
- c) do-while
- d) None

Answer: c

18. What will be printed?

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

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

Answer: a

19. What will be printed?

```
for(int i=1;i<=3;i++){
for(int j=1;j<=2;j++){
printf("*");
}
}
```

- a) ***
- b) *****
- c) ** ** **
- d) None

Answer: b

20. The break statement terminates:

- a) Only innermost loop
- b) All loops
- c) Entire program
- d) None

Answer: a

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