

- ① Which loop executes its body at least once, regardless of the condition?
 A. For B. while ☒ C. do-while D. None
- ② What is the correct syntax for a for loop in C++/Java?
 A. for(i=0; i<5) B. for(i<5; i++) ☒ C. for(int i=0; i<5; i++)
 D. for i=0 to 5
- ③ A while loop is an example of a:
 A. Entry-Controlled loop B. Exit-Controlled loop
 C. Counter-Controlled loop D. Recursive loop
- ④ Which loop is an exit-controlled loop?
 A. For B. while ☒ C. do-while D. All of the above.
- ⑤ What will the following code print?
 for(int i=1; i<=3; i++) printf("%d", i);
 A. 12 B. 1 2 3 C. 2 3 D. 1 3.
- ⑥ How many times will the loop run?
 int i=0; while(i<4) { i++; }
 A. 3 B. 4 C. 5 D. Infinite.
- ⑦ Which statement stops the loop immediately?
 A. Continue B. exit ☒ C. break D. stop
- ⑧ Which loop is best suited when the numbers of iterations is known?
 A. for B. while C. do-while D. Switch
- ⑨ What will the following code print?
 int i=5; do { printf("%d", i); } while(i<3);
 A. Nothing B. 5 C. 5 4 3 D. infinite
- ⑩ The continue statement does what?
 A. Terminates the loop B. ☒ Skips the current iteration
 C. Repeats previous iteration D. Stops program execution

11. Which loop can never be skipped entirely?

- A. for B. while ☒ C. do-while D. None

12. What will the following code print? ^{***}

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

- A. 0 1 2 3 4 ☒ B. 0 2 4 C. 1 3 5 D. 2 4

13. Which is true about infinite loops?

- A. They can only occur in while loops

- B. They cannot occur in for loops.

☒ C. They occur when the loop condition never becomes false.

- D. They occur only with wrong syntax

14. What is the output?

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

- ☒ A. 1 2 3 B. 1 2 C. 2 3 D. 1 3

15. Choose valid do-while syntax:

- A. do while (condition) { } ☒ B. do { while (condition); }

- C. do { while (condition); } D. while (do { });

16. Which loop checks the condition after executing the body?

- A. for B. while ☒ C. do-while D. All

17. In a for loop, which part is optional?

- A. Initialization B. condition ☒ C. increment ☒ D. All of the above

18. Which looping construct is best for menu-driven programs?

- A. for B. while ☒ C. do-while D. None

19. What will be the output?

```
int i = 3; while (i--); printf("%d", i); ***
```

- A. 3 B. 2 ☒ C. -1 D. 0

20. The following loop is

```
for (;;) { ***
```

- A. Invalid B. Executes once ☒ C. Infinite loop D. Compiler error