

- 1) Which loop is guaranteed to execute at least once?
- a) for
  - b) while
  - c) do-while
  - d) All of the above

Answer: C

- 2) What is the output?

```
for (int i=1; i<=3; i++)
```

```
    printf("%d", i);
```

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

Answer: a

- 3) Which loop is entry-controlled?

- a) for
- b) while
- c) do-while

- d) a and b

Answer: d.

- 4) What is the output?

```
int i=5;
```

```
while (i<5)
```

```
i++;
```

```
printf("%d", i);
```

- a) 5      b) 6      c) 4      d) loop runs forever

Answer: a

- 5) which keyword stops the current loop immediately?
- a) stop    b) exit    c) break    d) terminate

Answer: c

- 6) which keyword skips the current iteration?

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

Answer: b

- 7) What is the output?

```
for(int i=1; i<=5; i+=2)  
    printf("%d", i);
```

- a) 1 2 3 4 5    b) 1 3 5    c) 2 4    d) infinite loops

Answer: b

- 8) Which loop is best when number of iterations is known?

- a) for    b) while    c) do-while    d) switch

Answer: a

- 9) What is the output?

```
int i=1;
```

```
do {
```

```
    printf("%d", i);
```

```
    i++;
```

```
} while (i<1);
```

- a) no output    b) 1    c) 1 2    d) infinite.

Answer: b

- 10) Which of the following can create infinite loops?

- a) Missing increment    b) wrong condition  
c) Always true condition    d) All

Answer: d

11. what will this print?

```
for(int i=0; i<3; i++)  
    printf("Hi");
```

- a) Hi Hi Hi      b) Hi      c) Error      d) nothing

Answer: b

12. which loops structure is correct?

- a) for i=0 to 5      b) for (int i=0; i<5; i++)  
c) loop (i<5)      d) for (int i<5)

Answer: b

13. what is the output?

```
int i=10;  
while (i>7)  
    i--;  
printf("%d", i);
```

- a) 10      b) 9      c) 7      d) 8

Answer: c

14) what happens if the condition in a while loop is false initially?

- a) loop runs once      b) loop runs twice  
c) loop never runs      d) Error

Answer: c

15) which loop is useful for menu-driven programs?

- a) while      b) do-while      c) for      d) switch

Answer: b

16) what is the output?

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

{

```
    if(i==3) break;
```

```
    printf("%d", i);
```

}

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

Answer: b

- 17) which is an infinite loop?  
a) for(;;)    b) while(s)    c) do { } while(1)    d) All of the above

Answer: d

- 18) what is the output?

```
int i=2;  
while (i<=10) {  
    printf ("%d", i);  
    i = i * 2;  
}
```

- a) 2 4    b) 2 4 8    c) 2 4 8 16    d) 2

Answer: b

- 19) which loops checks condition at the end?  
a) for    b) while    c) do-while    d) switch.

Answer: C

- 20) identify the error:

```
C  
while (i=5)  
    printf ("Hello");
```

- a) = must be ==  
c) printf is wrong

b) while cannot use conditions.

d) No error.

Answer: a