Python While Loops – 30 MCQs

Simple (1–10)

1.Which keyword is used to start a while loop?

a) while

b) for

c) loop

d) iterate

a)While

2.What is the syntax of a while loop?

a) while condition: # code block

b) for condition: # code block

c) loop while condition: # code block

d) while (condition)

a) while condition: # code block

3.When does a while loop stop executing?

a) When condition becomes False

b) When condition becomes True

c) After 10 iterations

d) Always runs forever

a) When condition becomes False

4.What will be the output?

count = 0

while count < 3:

print(count)

count += 1

a) 0,1,2

b) 1,2,3

c) 0,1,2,3

d) Error

a) 0,1,2

5.Can a while loop run forever?

a) Yes

b) No

c) Only with break

d) Only with continue

a)YES

6.Which statement exits a while loop?

a) break

b) continue

c) pass

d) stop

a) break

7.Which statement skips the current iteration?

a) continue

b) break

c) pass

d) skip

a) continue

8.Is indentation required in while loops?

a) Yes

b) No

c) Optional

d) Depends on Python version

a)YES

9.Can a while loop have an else block?

a) Yes

b) No

c) Only with for loop

d) Only with nested loops

a)YES

10.What will be printed?

```
n = 1
while n <= 3:
print(n)
n += 1
```

a) 1,2,3

b) 0,1,2

c) 1,2,3,4

d) 0,1,2,3

a) 1,2,3

 Intermediate (11–20) Output?

11.count = 5

```
while count > 0:
print(count)
count -= 2
```

a) 5,3,1

b) 5,4,3,2,1

c) 5,3,1,-1

d) 5,4,3

a) 5,3,1

12.Which loop is better when the number of iterations is unknown?

a) while

b) for

c) both

d) none

a) while

13.x = 0

```
while x < 3:
if x == 1:
break
print(x)
```

x += 1

a) 0

b) 0,1

c) 1

d) 0,1,2

a) 0

14.What will this code do?

x = 0

while x < 3:

x += 1

continue

print(x)

a) Prints 1,2,3

b) Prints nothing

c) Error

d) Infinite loop

b) Prints nothing

15.x = 0

while x < 3:

print(x)

if x == 1:

break

x += 1

a) 0,1

b) 0,1,2

c) 0

d) 1

a) 0,1

16.Can a while loop iterate over a list?

a) No, use for loop

b) Yes, with index

c) Only with range()

d) Only strings

b) Yes, with index

17.count = 0

while count < 5:

count += 1

if count % 2 == 0:

continue

print(count)

a) 1,3,5

b) 2,4

c) 1,2,3,4,5

d) 0,1,2,3,4

a) 1,3,5

18.Can a while loop iterate over a string directly?

a) No

b) Yes

c) Only characters

d) Only words

a) No

19.What is the output?

n = 3

while n:

print(n)

n -= 1

a) 3,2,1

b) 2,1,0

c) 3,2,1,0

d) 0,1,2

c) 3,2,1

20.What happens if the while condition is initially False?

a) Loop never executes

b) Executes once

c) Error

d) Infinite loop

a) Loop never executes

Complex (21–30)

21.x = 0

while x < 3:

y = 0

while y < 2:

print(x,y)

y += 1

x += 1

a) Pairs of x,y from 0,0 to 2,1

b) 0,0 only

c) Infinite loop

d) Error

a) Pairs of x,y from 0,0 to 2,1

22.Which statement exits the inner loop only?

a) break

b) continue

c) pass

d) exit

a) break

23.Can a while loop have multiple else blocks?

a) No

b) Yes

c) Only with for loops

d) Only nested while loops

b) NO

24.n = 1

while n <= 5:

print(n)

n += 1

else:

print("Done")

a) 1,2,3,4,5

b) 1,2,3,4,5,Done

c) Done

d) 1,2,3,4,5,6

b) 1,2,3,4,5,Done

25.Can you nest multiple while loops?

a) Yes

b) No

c) Only two

d) Only three

a) Yes

26.x = 0

while x < 3:

x += 1

continue

else:

print("Loop Ended")

a) Loop Ended

b) 0,1,2

c) Infinite loop

d) Nothing

a) Loop Ended

27.Can a while loop iterate over a tuple?

a) No, use for loop

b) Yes, with index

c) Only with range()

d) Only lists

b) Yes, with index

28.x = 0

while x < 3:

print(x)

x += 1

if x == 2:

break

a) 0,1

b) 0,1,2

c) 0,1,2,3

d) 0

a) 0,1

29.Is it necessary to modify a loop variable inside while loop?

a) Yes, otherwise infinite loop

b) No

c) Optional

d) Only for for loops

a) Yes, otherwise infinite loop

30.Which of these is valid?

while True:

print("Hello")

a) Infinite loop printing Hello

b) Error

c) Executes once

d) None

a) Infinite loop printing Hello