1. Which loop is used to iterate over a sequence in Python?
A) for
B) while
C) do-while
D) foreach
Answer: A

2. Which loop runs as long as a condition is true?
A) for
B) while
C) until
D) repeat
Answer: B

3. Which keyword is used to exit a loop early?
A) stop
B) exit
C) break
D) quit
Answer: C

4. Which keyword skips the current iteration and continues with the next?
A) break
B) pass
C) skip
D) continue
Answer: D

5. What will be the output?
```
for i in range(3):
    print(i)
```
A) 1 2 3
B) 0 1 2
C) 0 1 2 3
D) Error
Answer: B

6. 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
Answer: A

7. Which of these is true about range(5)?
A) It generates 0 to 5
B) It generates 1 to 5
C) It generates 0 to 4
D) It generates 5 only
Answer: C

8. Which statement does nothing in Python loops?
A) break
B) continue
C) pass
D) stop
Answer: C

9. Which of these is a valid for loop?
A) for(i=0;i<5;i++):
B) for i in range(5):
C) foreach(i=0;i<5;i++):
D) loop i in range(5):
Answer: B

10. Which loop is guaranteed to execute at least once?
A) for
B) while
C) do-while
D) repeat-until
Answer: C

11. Which function generates a sequence of numbers?
A) seq()
B) range()
C) list()

D) generate()
Answer: B

12. What is the output?
```
for i in range(2,5):
    print(i)
```
A) 2 3 4
B) 2 3 4 5
C) 1 2 3 4
D) 0 1 2
Answer: A

13. What is the output?
```
for i in range(2,10,3):
    print(i)
```
A) 2 5 8
B) 2 3 4
C) 2 4 6 8
D) 2 10
Answer: A

14. Which loop may become infinite if condition is not updated?
A) for
B) while
C) both
D) none
Answer: B

15. Which statement is used to end all iterations immediately?
A) stop
B) break
C) continue
D) pass
Answer: B

16. What is the output?
```
for ch in "Python":
    print(ch)
```
A) Python
B) P y t h o n

C) Error
D) None
Answer: B

17. Which function returns both index and value in a loop?
A) enumerate()
B) index()
C) items()
D) list()
Answer: A

18. What is the output?
for i in range(3):
    pass
print("Done")
A) Done
B) 0 1 2 Done
C) Error
D) None
Answer: A

19. Which loop is best to iterate over a list?
A) for
B) while
C) until
D) repeat
Answer: A

20. Which statement can create an infinite loop?
A) while True:
B) for i in range(5):
C) for i in [1,2,3]:
D) for i in range(0):
Answer: A

21. Which is the correct syntax for a while loop?
A) while(condition):
B) while condition:
C) while condition do:
D) loop while condition:

Answer: B

22. What is the output?

```
i = 0
while i < 3:
    print(i)
    i += 1
else:
    print("End")
```

A) 0 1 2 End
B) 0 1 2
C) End
D) Error
Answer: A

23. Which keyword is used to define an empty loop body?
A) skip
B) pass
C) continue
D) none
Answer: B

24. What will break inside a loop do?
A) End the loop immediately
B) Skip current iteration
C) Do nothing
D) Repeat iteration
Answer: A

25. What is the output?

```
for i in [1,2,3]:
    print(i*2)
```

A) 1 2 3
B) 2 4 6
C) 1 4 9
D) Error
Answer: B

26. Which function returns items with index in loops?
A) zip()

B) enumerate()
C) map()
D) list()
Answer: B

27. Which statement is invalid?
A) for i in range(5): print(i)
B) while True: break
C) for i in range(5): continue
D) for i range(5): print(i)
Answer: D

28. What is the output?
for i in []:
   print("Hi")
else:
   print("Done")
A) Hi Done
B) Done
C) Hi
D) Nothing
Answer: B

29. Which will run forever?
A) while False:
B) while True:
C) for i in range(0):
D) for i in [ ]:
Answer: B

30. Which function pairs two lists in loops?
A) zip()
B) pair()
C) match()
D) join()
Answer: A

31. Which is correct?
A) while x < 5: x++
B) while x < 5: x += 1

C) while (x < 5) { x++ }
D) while x < 5 do: x += 1
Answer: B

32. What is the output?
```
for i in range(1,5):
    if i == 3:
        break
    print(i)
```
A) 1 2
B) 1 2 3
C) 1 2 3 4
D) Error
Answer: A

33. Which is valid nested loop?
A) for i in range(3): for j in range(3): print(i,j)
B) for i in range(3) { for j in range(3): print(i,j) }
C) loop i in range(3): loop j in range(3): print(i,j)
D) while i < 3: while j < 3: print(i,j)
Answer: A

34. What is the output?
```
for i in range(2):
    for j in range(2):
        print(i,j)
```
A) 0 0 0 1 1 0 1 1
B) (0,0) (0,1) (1,0) (1,1)
C) 0 0
   0 1
   1 0
   1 1
D) Error
Answer: C

35. Which loop can be infinite even if range is given?
A) for
B) while
C) nested for
D) none

Answer: B

36. What is the output?
for i in range(0,10,3):
    print(i)
A) 0 1 2 3 4 5 6 7 8 9
B) 0 3 6 9
C) 0 2 4 6 8
D) 3 6 9
Answer: B

37. Which loop construct is absent in Python?
A) for
B) while
C) do-while
D) nested loops
Answer: C

38. Which keyword is used to define no operation inside a loop?
A) continue
B) break
C) pass
D) none
Answer: C

39. Which is valid?
A) for x in range(3): print(x)
B) for x = 0; x < 3; x++: print(x)
C) foreach x in [1,2,3]: print(x)
D) loop(x): print(x)
Answer: A

40. What is the output?
for i in range(5,0,-2):
    print(i)
A) 5 3 1
B) 5 4 3 2 1
C) 0 1 2 3 4
D) Error
Answer: A

41. Which statement exits only current iteration?
A) break
B) continue
C) pass
D) exit
Answer: B

42. What is the output?
i = 0
while i < 5:
    i += 1
else:
    print(i)
A) 0
B) 4
C) 5
D) Error
Answer: C

43. Which will never run?
A) while 0:
B) while False:
C) for i in range(0):
D) all of these
Answer: D

44. Which is correct?
A) A for loop can use else
B) A while loop can use else
C) Both A and B
D) None
Answer: C

45. What is the output?
for i in range(3):
    print("Hi")
else:
    print("End")
A) Hi Hi Hi

B) Hi Hi Hi End
C) End
D) Error
Answer: B

46. Which function creates a list from a loop?
A) list()
B) range()
C) zip()
D) tuple()
Answer: A

47. Which of these is true?
A) for loops can use else
B) while loops can use else
C) both
D) none
Answer: C

48. What is the output?
for i in [1,2,3]:
   if i == 2:
      continue
   print(i)
A) 1 2 3
B) 1 3
C) 2 3
D) Error
Answer: B

49. Which stops loop execution immediately?
A) break
B) stop
C) continue
D) pass
Answer: A

50. What is the output?
for i in range(1,4):
   print(i**2)

A) 1 2 3
B) 1 4 9
C) 1 8 27
D) Error
Answer: B