

1. What is the output?

```
x = 0
```

```
y = 5
```

```
if x and y:
```

```
    print("A")
```

```
elif x or y:
```

```
    print("B")
```

```
else:
```

```
    print("C")
```

A) A

B) B

C) C

D) Error

Answer: B

2. What is the output?

```
x = []
```

```
if x and 0:
```

```
    print("True")
```

```
else:
```

```
    print("False")
```

A) True

B) False

C) Error

D) None

Answer: B

3. What is the output?

```
x = [0]
```

```
if x:
```

```
    print("Yes")
```

```
else:
```

```
    print("No")
```

A) Yes

B) No

C) Error

D) None

Answer: A

4. Which statement is true about Python's short-circuit evaluation?

- A) Both sides of 'and' are always evaluated
- B) Both sides of 'or' are always evaluated
- C) 'and' stops if the left side is False
- D) 'or' stops if the left side is False

Answer: C

5. What is the output?

```
x = 5
```

```
if x > 2:
```

```
    if x < 10:
```

```
        if x % 2 == 0:
```

```
            print("Even")
```

```
        else:
```

```
            print("Odd")
```

- A) Even
- B) Odd
- C) Error
- D) None

Answer: B

6. What will happen?

```
if 0:
```

```
    print("Zero")
```

```
elif []:
```

```
    print("Empty List")
```

```
elif None:
```

```
    print("None")
```

```
else:
```

```
    print("Else")
```

- A) Zero
- B) Empty List
- C) None
- D) Else

Answer: D

7. What is the output?

```
x = 10
```

```
y = 20
```

```
print("Yes") if x > y else print("No") if x < y else print("Equal")
```

- A) Yes

- B) No
- C) Equal
- D) Error

Answer: B

8. Which of these is valid?

- A) if x > 5 > 2: print("True")
- B) if x > 5 and > 2: print("True")
- C) if (x > 5) (x > 2): print("True")
- D) if x > (5 > 2): print("True")

Answer: A

9. What is the output?

```
x = 5
```

```
if x > 2:
```

```
    pass
```

```
else:
```

```
    print("Else")
```

- A) Nothing
- B) Else
- C) Error
- D) None

Answer: A

10. Which of the following evaluates to True?

- A) if (1,2,3):
- B) if ():
- C) if []:
- D) if "":

Answer: A

11. What is the output?

```
x = None
```

```
if x is not None and x:
```

```
    print("Yes")
```

```
else:
```

```
    print("No")
```

- A) Yes
- B) No
- C) Error

D) None

Answer: B

12. Which is the result of this?

if 1 < 2 < 3:

print("Valid")

else:

print("Invalid")

A) Valid

B) Invalid

C) Error

D) None

Answer: A

13. What will be printed?

x = True

y = False

if x or y and x:

print("Yes")

else:

print("No")

A) Yes

B) No

C) Error

D) None

Answer: A

14. What is the output?

x = "0"

if x:

print("True")

else:

print("False")

A) True

B) False

C) Error

D) None

Answer: A

15. Which of these is invalid?

- A) if not (x and y):
- B) if (x or y) and z:
- C) if x and or y:
- D) if (x > 0) or (y > 0):

Answer: C

16. Which is correct?

- A) Python supports switch-case before 3.10
- B) Python 3.10 introduced match-case
- C) Python requires external library for switch
- D) Python does not support conditional statements

Answer: B

17. What is the output?

x = 5

y = 0

if y or x / y:

    print("A")

else:

    print("B")

- A) A
- B) B
- C) Error
- D) None

Answer: A

18. Which is true about 'if' expressions?

- A) They can only be single line
- B) They can be nested
- C) They cannot use else
- D) They must return boolean

Answer: B

19. What is the output?

x = [ ]

y = [0]

if x == y:

    print("Equal")

else:

    print("Not Equal")

- A) Equal
- B) Not Equal
- C) Error
- D) None

Answer: B

20. Which is correct about 'match-case'?

- A) It requires break statements
- B) It uses case with patterns
- C) It works only with integers
- D) It cannot use default

Answer: B

21. What is the output?

```
x = True
y = False
if x & y:
    print("Yes")
else:
    print("No")
```

- A) Yes
- B) No
- C) Error
- D) None

Answer: B

22. What is the output?

```
x = 10
if (x > 5) and (x < 20) and not (x == 15):
    print("Valid")
else:
    print("Invalid")
```

- A) Valid
- B) Invalid
- C) Error
- D) None

Answer: A

23. Which is true about identity and equality?

- A) 'is' checks value

- B) '==' checks identity
- C) 'is' checks identity
- D) Both check identity

Answer: C

24. What is the output?

```
x = [1,2]
```

```
y = [1,2]
```

```
if x is y:
```

```
    print("Same")
```

```
else:
```

```
    print("Different")
```

A) Same

B) Different

C) Error

D) None

Answer: B

25. Which is valid conditional expression?

A) `print("A") if True else print("B")`

B) `print("A" if True else "B")`

C) `result = "A" if True else "B"`

D) All of the above

Answer: D

26. What is the output?

```
x = 0
```

```
if x or (1/0):
```

```
    print("Yes")
```

```
else:
```

```
    print("No")
```

A) Yes

B) No

C) Error

D) None

Answer: B

27. Which operator has higher precedence?

A) and

B) or

- C) not
- D) All equal

Answer: C

28. What will be printed?

```
if bool("False") == False:
```

```
    print("X")
```

```
else:
```

```
    print("Y")
```

- A) X
- B) Y
- C) Error
- D) None

Answer: B

29. Which is valid?

A) if (x := 5) > 0: print("Yes")

B) if x = 5: print("Yes")

C) if (x : 5) > 0: print("Yes")

D) if := x > 5: print("Yes")

Answer: A

30. What is the output?

```
x = " "
```

```
if x.strip():
```

```
    print("Non-empty")
```

```
else:
```

```
    print("Empty")
```

- A) Non-empty
- B) Empty
- C) Error
- D) None

Answer: B

31. Which is true?

- A) Python evaluates chained comparisons left to right
- B) Python evaluates chained comparisons all at once
- C) Python does not allow chained comparisons
- D) Python uses bitwise for comparisons

Answer: B



32. What is the output?

```
x = 1
```

```
y = 2
```

```
if x < y < 3:
```

```
    print("Yes")
```

```
else:
```

```
    print("No")
```

A) Yes

B) No

C) Error

D) None

Answer: A

33. Which will throw error?

A) if all([]): print("Yes")

B) if any([]): print("Yes")

C) if min([]): print("Yes")

D) if max([ ]): print("Yes")

Answer: C

34. Which is valid Python decision making?

A) match value: case 1: print("One")

B) switch value: case 1: print("One")

C) choose value: case 1: print("One")

D) case value: print("One")

Answer: A

35. What is the output?

```
x = 3
```

```
if x & 1:
```

```
    print("Odd")
```

```
else:
```

```
    print("Even")
```

A) Odd

B) Even

C) Error

D) None

Answer: A

36. Which is invalid nested if?

A) if x > 0: if y > 0: print("Yes")

B) if x > 0: else: print("No")

C) if x > 0: pass

D) if x > 0: if y < 0: pass

Answer: B

37. What is the output?

```
x = [ ]
```

```
if not x:
```

```
    print("Empty")
```

```
else:
```

```
    print("Not Empty")
```

A) Empty

B) Not Empty

C) Error

D) None

Answer: A

38. Which operator cannot be used directly in if?

A) in

B) not in

C) is

D) ==

Answer: D

39. What is the output?

```
x = "Python"
```

```
if x[::-1] == "nohtyP":
```

```
    print("Yes")
```

```
else:
```

```
    print("No")
```

A) Yes

B) No

C) Error

D) None

Answer: A

40. What is the output?

```
x = 0.0
```

```
if x:  
    print("True")  
else:  
    print("False")
```

- A) True
- B) False
- C) Error
- D) None

Answer: B

41. Which evaluates to False?

- A) if 0.0:
- B) if 0j:
- C) if []:
- D) All of the above

Answer: D

42. Which of these keywords must always pair with if?

- A) else
- B) elif
- C) pass
- D) None

Answer: D

43. Which is correct?

- A) Python allows assignment in if directly
- B) Python allows walrus operator inside if
- C) Python requires double equals for assignment in if
- D) None

Answer: B

44. What is the output?

```
x = 10  
y = 5  
if (x // y) * y == x:  
    print("Divisible")  
else:  
    print("Not Divisible")
```

- A) Divisible
- B) Not Divisible

C) Error

D) None

Answer: A

45. Which of these is valid syntax?

A) if x > 0 print("Yes")

B) if (x > 0) { print("Yes") }

C) if x > 0: print("Yes")

D) if x > 0 then print("Yes")

Answer: C

46. What is the output?

```
x = [1,2,3]
```

```
if sum(x) > 5 and all([i > 0 for i in x]):
```

```
    print("Valid")
```

```
else:
```

```
    print("Invalid")
```

A) Valid

B) Invalid

C) Error

D) None

Answer: A

47. What is the output?

```
x = " "
```

```
if x:
```

```
    print("True")
```

```
else:
```

```
    print("False")
```

A) True

B) False

C) Error

D) None

Answer: A

48. Which evaluates to True?

A) if not "":

B) if not []:

C) if not 0:

D) All of the above

Answer: D

49. What is the output?

```
x = {"a":1}
```

```
if "a" in x:
```

```
    print("Key found")
```

```
else:
```

```
    print("Not found")
```

A) Key found

B) Not found

C) Error

D) None

Answer: A

50. Which is true about Python if?

A) It must return True/False

B) It accepts any truthy/falsy expression

C) It cannot use strings

D) It cannot use lists

Answer: B