PYTHON

DECISION MAKING STATEMENTS-MEDIUM LEVEL

1. Which of the following can be used to check a condition and execute a block of code only if the condition is true?
   A) if
   B) elif
   C) else
   D) while
   Answer: A

2. What will be the output of the following code?
   x = 10
   if x > 5:
   print("A")
   else:
   print("B")
   A) A
   B) B
   C) Error
   D) None
   Answer: A

3. Which keyword is used to handle multiple conditions after an initial if?
   A) else
   B) elif
   C) switch
   D) for
   Answer: B

4. What is the output of:

   x = 20

   if x < 10:

   print("A")

   elif x > 15:

   print("B")

   else:

   print("C")

   A) A
   B) B
   C) C

D) Error
Answer: B

5. Which of these statements is correct for checking multiple conditions in Python?
A) if-elif-else
B) if-else-if
C) switch-case
D) for-if-else
Answer: A

6. What is the output of:

a = 5

b = 10

if a > b:

print("Greater")

else:

print("Smaller")

A) Greater
B) Smaller
C) Error
D) None
Answer: B

7. What will be the output of:

x = 0

if x:

print("True")

else:

print("False")

A) True
B) False
C) 0
D) Error
Answer: B

8. Which of the following is **not valid** syntax in Python?
A) if x > y:
B) if(x > y)
C) if x == y:
D) if x < y:
Answer: B

9. How does Python evaluate the following condition?

```python
if not True:

    print("Yes")

else:

    print("No")
```

A) Yes
B) No
C) Error
D) None
Answer: B

10. Which logical operator is used to combine multiple conditions in Python?
    A) AND
    B) &
    C) and
    D) &&
    Answer: C

11. What will be the output of:

```python
x = 5

y = 10

if x < 10 and y > 5:

    print("Yes")

else:

    print("No")
```

A) Yes
B) No
C) Error
D) None
Answer: A

12. Which operator represents logical OR in Python?
    A) or
    B) ||
    C) |
    D) OR
    Answer: A

13. What will be printed by:

```python
x = 5

if x > 10 or x < 7:

    print("Yes")
```

else:

print("No")

A) Yes
B) No
C) Error
D) None
Answer: A

14. What is the output of:

x = 5

y = 10

if x > 0 and y < 5:

print("A")

elif x > 0 and y > 5:

print("B")

else:

print("C")

A) A
B) B
C) C
D) Error
Answer: B

15. Which of the following is **correct** for nested if statements?
    A) if condition1: if condition2:
    B) if condition1 elif condition2:
    C) if condition1 else if condition2:
    D) if condition1: else if condition2:
    Answer: A

16. What is the output of:

x = 10

if x < 5:

print("A")

elif x < 15:

print("B")

else:

print("C")

A) A
B) B
C) C
D) Error
Answer: B

17. What will the following code print?

```
x = 0

if x:

print("Yes")

elif not x:

print("No")
```

A) Yes
B) No
C) 0
D) Error
Answer: B

18. Which statement is used to execute a block when **all previous conditions fail**?
    A) if
    B) elif
    C) else
    D) while
    Answer: C

19. What is the output of:

```
x = 10

if x == 10:

print("Equal")

else:

print("Not Equal")
```

A) Equal
B) Not Equal
C) Error
D) None
Answer: A

20. Which of these cannot be used in conditional statements in Python?
    A) Boolean values
    B) Numbers
    C) Strings
    D) None of the above
    Answer: D

21. What is the output of:

```
x = 5

if x > 0:

if x < 10:

print("Inside")

else:

print("Outside")
```

A) Inside
B) Outside
C) Error
D) None
Answer: A

22. What will be printed?

```
a = 10

b = 20

if a > 5 and b < 15:

print("A")

else:

print("B")
```

A) A
B) B
C) Error
D) None
Answer: B

23. Which of these is a **compound conditional statement** in Python?
A) if x > 5:
B) if x > 5 and y < 10:
C) elif x > 5:
D) else:
Answer: B

24. What is the output of:

```
x = True

y = False

if x and not y:

print("Yes")

else:
```

print("No")

A) Yes
B) No
C) True
D) False
Answer: A

25. Which of the following is **not a valid logical operator** in Python?
    A) and
    B) or
    C) not
    D) &&
    Answer: D

26. What is the output of:

```
x = 0

if x == 1:

print("One")

elif x == 0:

print("Zero")

else:

print("Other")
```

A) One
B) Zero
C) Other
D) Error
Answer: B

27. Which of these can be used to create a decision tree in Python code?
    A) if-elif-else
    B) for loop
    C) while loop
    D) try-except
    Answer: A

28. What will be printed?

```
x = 5

if x > 10:

print("A")

elif x > 3:

print("B")
```

else:

print("C")

A) A
B) B
C) C
D) Error
Answer: B

29. Which statement is executed **only if all previous if and elif conditions are False**?
    A) if
    B) elif
    C) else
    D) for
    Answer: C

30. What is the output?

    x = 3

    y = 7

    if x > 0 or y < 5:

    print("Yes")

    else:

    print("No")

    A) Yes
    B) No
    C) Error
    D) None
    Answer: A

31. Which keyword is used to check **opposite of a condition**?
    A) not
    B) else
    C) elif
    D) or
    Answer: A

32. What will be printed?

    x = True

    y = False

    if not x or y:

    print("Yes")

    else:

print("No")

A) Yes
B) No
C) True
D) False
Answer: B

33. Which is **valid nested if** syntax?
    A) if x>5: if y<10: print(y)
    B) if x>5 elif y<10: print(y)
    C) if x>5: else if y<10: print(y)
    D) if x>5: else: if y<10: print(y)
    Answer: A

34. What is the output?

    x = 0

    if x:

    print("Yes")

    elif x == 0:

    print("No")

    A) Yes
    B) No
    C) 0
    D) Error
    Answer: B

35. Which of the following **evaluates multiple conditions in one line**?
    A) if x > 5 and y < 10:
    B) if x > 5 else y < 10:
    C) if x > 5 elif y < 10:
    D) if x > 5 or else y < 10:
    Answer: A

36. What is printed?

    x = 8

    if x < 5:

    print("A")

    elif x < 10:

    print("B")

    else:

    print("C")

A) A
B) B
C) C
D) Error
Answer: B

37. Which of the following is **true about elif**?
    A) It is optional
    B) Can be multiple
    C) Executed only if previous if is False
    D) All of the above
    Answer: D

38. What is output of:

x = 7

if x > 10:

print("A")

elif x > 5:

print("B")

elif x > 0:

print("C")

A) A
B) B
C) C
D) Error
Answer: B

39. Which of the following **cannot be used in an if statement**?
    A) Variables
    B) Functions returning Boolean
    C) Strings with text
    D) Mathematical expressions
    Answer: C

40. What is the output of:

x = 5

if x > 0:

if x < 3:

print("A")

else:

print("B")

A) A
B) B
C) Error
D) None
Answer: B

41. Which of the following **correctly checks if x is not equal to 5**?
    A) if x != 5:
    B) if x <> 5:
    C) if not x = 5:
    D) if x not 5:
    Answer: A

42. Which of the following **combines multiple conditions** in Python?
    A) if x>5 and y<10:
    B) if x>5 else y<10:
    C) if x>5 elif y<10:
    D) if x>5 || y<10:
    Answer: A

43. What is the output of:

    x = True

    y = False

    if x and y:

    print("A")

    else:

    print("B")

    A) A
    B) B
    C) True
    D) False
    Answer: B

44. Which of the following **is evaluated first** in a compound condition?
    A) Left to right
    B) Right to left
    C) Random
    D) Compiler decides
    Answer: A

45. What is output of:

    x = 5

    if x>3 and x<10:

    print("Yes")

else:

print("No")

A) Yes
B) No
C) Error
D) None
Answer: A

46. Which of the following **cannot be part of an if condition**?
    A) Comparison operators
    B) Boolean values
    C) Functions returning True/False
    D) Loops
    Answer: D

47. What is output of:

x = 5

if x<0:

print("A")

elif x<10:

print("B")

else:

print("C")

A) A
B) B
C) C
D) Error
Answer: B

48. Which of the following **combines multiple logical checks**?
    A) if x>5 and y<10:
    B) if x>5 or y<10:
    C) if not x>5:
    D) All of the above
    Answer: D

49. What will be printed?

x = 3

if x>5:

print("A")

elif x>0:

print("B")

else:

print("C")

A) A
B) B
C) C
D) Error
Answer: B

50. Which of the following is **mandatory** in an if statement?
    A) if keyword
    B) else keyword
    C) elif keyword
    D) Logical operator
    Answer: A