Conditional Statements - Practice Questions.

Part A: Multiple Choice (1 point each)

1. Which keyword begins a conditional in Python?
A. if

B. else

 C. check

D. condition

2. What will this code print?
x = 5
if x > 3:
   print('Yes')
else:
   print('No')

A. Yes
B. No
C. Error
D. 5

3. Which of these is NOT valid inside an if condition?

A. x == 10
B. x > 5
C. print('Hi')
D. y != 3

4. In a chain of if...elif...else, how many branches can run?

A. Zero or One
B. Two
 C. All
 D. Infinite

5. What does 'else' mean?
A. Always True
B. Everything not matched
C. End program

D. Repeat again

Part B: True or False (1 point each)

6. An if block must be indented. (True/False)

7. elif can appear first before if. (True/False)

8. Only one branch runs in an if...elif...else chain. (True/False)

9. An else is always required in Python conditionals. (True/False)

10. Comparison operator '==' checks equality, not assignment. (True/False)

Part C: Short Answer & Fix the Bug (2 points each)

11. Explain the difference between '=' and '==' in Python.

12. Identify and fix the error:
```
if age => 18:
   print('Adult')
```

13. What is the output?
```
x = 7
if x % 2 == 0:
   print('Even')
else:
   print('Odd')
```

14. Why is indentation important in conditionals?

15. Rewrite this snippet correctly:
```
if True
print('Always runs')
```

Part D: Code Challenges (3 points each)

16. Write a program that checks if a number is positive, negative, or zero.

17. Ask the user for a grade. Print 'Pass' if >= 50, else 'Fail'.

18. Write code that checks whether a number is divisible by both 2 and 3.

19. Create a program that asks for age and prints 'Teenager' if 13–19, else 'Not Teenager'.

20. Write a program to compare two numbers and print the larger one.

Part E: Code Tracing & Puzzles (3 points each)

21. What will this print?

```python
x = 10
y = 5
if x > y:
    print('A')
else:
    print('B')
```

22. Predict the output:

```python
n = 4
if n % 2 == 0:
    print('Even')
if n > 0:
    print('Positive')
```

23. Fill in the blanks:

```python
score = 40
if score >= 50:
    print('_____')
else:
    print('_____')
```

24. Explain what happens:

```python
x = 3
if x > 5:
    print('Big')
elif x == 3:
    print('Equal')
else:
    print('Small')
```

25. The output is: Success. Complete the blanks:

```python
val = 7
if val < 5:
    print('Fail')
____ val >= 7:
    print('Success')
```