Topics for Quiz #2

Classes
Objects
Relationship between classes and objects
State of an object
Behaviors of an object
Instance data
Encapsulation
Public modifiers
Private modifiers
Service methods
Support methods
Getters
Setters
Flow of control
return statement
void
Formal parameters
Actual parameters
Local data
Constructors
Components
Events
Listeners
Buttons
Boolean expressions
Loops
Equality operators
Relational operators
if statement
if-else statement
Block statements
Nested if statements
Comparing floating point numbers

Comparing characters
Comparing objects
while statement
Infinite loops
Nested loops
break statement
Check boxes
Radio buttons
Button group
switch statement
Conditional statement
do statement
for statement
Software development activities
Identifying classes and objects
Static methods
Static variables
Class relationships
Dependency
Aggregation
this
Interfaces
The comparable interface
The iterator interface
Method overloading
Defect testing
Reviews
Regression testing
White box testing
Black box testing
Layout managers

Which of the following statements about loops is true?

   ○ a) The for loop will always be executed at least once

   ○ b) The do loop is good to use when you know the number of times the loop must execute

   ○ c) The while loop will always execute the body of the loop at least once

   ○ d) In the for loop and while loops, the condition is evaluated before the loop body is executed

   ○ e) A while loop cannot produce an infinite loop

Given the nested if-else structure below and x=0, a= -5 and b=2, what will be the value of x after the statements are executed?

```
if (a < 0)
        if (b > 0)
                x = x + 5;
        else
                if (a < 5)
                        x = x + 4;
                else
                        x = x + 3;
else
        x = x + 2;
```

   ○ a) 0

   ○ b) 7

   ○ c) 5

   ○ d) 3

   ○ e) 4