

Name: \_\_\_\_\_

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| Practice questions |
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1. The scope of a function parameter is identical to the scope of a local variable declared in the outermost block of the function body.
  - A. True
  - B. False
2. Disregarding the possibility of name hiding, the scope of a local identifier extends from the point of declaration to the end of the block in which it is declared.
  - A. True
  - B. False
3. In the following function, the declaration of beta includes an initialization.

```
void SomeFunc( int alpha )  
{  
    int beta = 25;  
    ...  
}
```

Which of the following statements about beta is false?

- A. It is initialized once only, the first time the function is called
  - B. It is initialized each time the function is called
  - C. It cannot be reassigned a different value within the function
  - D. A and C above
  - E. B and C above
4. If a variable alpha is accessible only within function F, then alpha is either
    - A. a global variable or a parameter of F.
    - B. a local variable within F or a parameter of F.
    - C. a local variable within F or an argument to F.
    - D. a global variable or an argument to F.
  5. What is the output of the following code fragment? (All variables are of type int.)

```
alpha = 3;  
beta = 20;  
if (beta > 10)  
{  
    int alpha = 5;  
  
    beta = beta + alpha;  
    cout << alpha << ' ' << beta << endl;  
}  
cout << alpha << ' ' << beta << endl;
```

6. Given the first few lines of a function called Calc, which of the following is true about the variable alpha?

```
void Calc(float beta )
{
    alpha = 3.8 * beta;
    ...
}
```

- A. a global variable
  - B. a local variable
  - C. an argument
  - D. a parameter
  - E. none of above
7. The C++ statement
- ```
alpha /= beta + 25;
```
- is equivalent to the statement
- ```
alpha = alpha / (beta + 25);
```
- A. true
  - B. false
8. Assuming that the internal representation of the character 'e' is the integer 101, what is the output of the following code fragment?
- ```
char ch = 'e';
cout << ch << ' ' << int(ch) << endl;
```
- A. e e
  - B. e 101
  - C. 101 e
  - D. 101 101
9. An int variable someInt contains a value from 0 through 9. Which of the following stores the corresponding digit character into someChar?
- A. someChar = char(someInt);
  - B. someChar = char('0' + someInt);
  - C. someChar = someInt;
  - D. someChar = char('0' - someInt);
  - E. someChar = char(someInt - '0');
10. Assume you have the following declarations: