Metropolitan State University, St. Paul, MN ICS 372 Object-Oriented Design and Implementation Quiz 2 Solution

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1.	A catch block has to be associated with
	 (a) a try block ✓ (b) another catch block (c) both (a) and (b) (d) neither (a) nor (b)
2.	A throws clause is declared as part of
	 (a) a class header (b) an interface header (c) a method header ✓ (d) a try block
3.	Suppose class D extends class B . Assume that within B a method with the header public void $m1()$ is declared. This method may be called from any instance method in class D .
	(a) True ✓(b) False
4.	Suppose class D extends class B . Assume that within B a method with the header public void $m1(B \ b1, \ int \ a)$ is declared. Which of the following is an over-ride of method $m1$ in class D ?
	 (a) public void m1() (b) public boolean m1(B b1, int a) (c) public void m1(B b1, int a) ✓ (d) None of the above
5.	Suppose $\mathtt{m1}()$ is overridden in class $\mathtt{C}.$ Which of the following is a call to the overridden method from the overriding method?
	<pre>(a) m1(); (b) this.m1(); (c) super(); (d) super.m1(); ✓</pre>
6.	Suppose D is a subclass of B. Assume that B has a single constructor and it is of

the form public B(int a) . Then D

(a) need not declare a constructor

- (b) must (necessarily) have a constructor of the form D(int a) with an appropriate access specifier.
- (c) should have a constructor that has the call super(<int argument>) in it.
- (d) Both (b) and (c)
- 7. Which of the following is true of the override of the equals() method in a class C?
 - (a) It has a parameter of type C
 - (b) It has a parameter of type Object \checkmark
 - (c) It has no parameters
 - (d) None of the above
- 8. Suppose c1 is created as an instance of class C. Which of the following is true of the override of the equals() method in a class C?
 - (a) c1.equals(c1) should return true
 - (b) c1.equals(null) should return false
 - (c) Both (a) and (b) \checkmark
 - (d) Neither (a) nor (b)
- 9. If c1.equals(c2) returns true and c2.equals(c3) returns true, then c1.equals(c3) should return true.
 - (a) True ✓
 - (b) False
- 10. c1.hashCode() should be equal to c2.hashCode()
 - (a) if and only if c1.equals(c2) returns true
 - (b) if c1.equals(c2) returns true ✓
 - (c) if c1.equals(c2) returns false
 - (d) only if c1.equals(c2) returns true