## UCD SCJA Course SAMPLE Exam, January 2009

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Instructions		
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Answer ALL 25 questions. Clearly mark your choice(s) for each question. If you want to change your answer, please ensure that your final choice(s) is/are clearly marked.

Do NOT detach pages from this exam, and do NOT add anything only your indicated choices will be marked, there is no need to provide any explanation. 1. Select the correct *setter* and *getter* method for the property limit according to the JavaBeans convention (choose all correct answers):

```
public class PropertyCheck {
        private int limit;
}

A. public void setLimit(int limit) { this.limit=limit; }

B. public int setLimit(int limit) { return this.limit; }

C. public void getLimit(int limit) { this.limit=limit; }

D. public int getLimit() { return this.limit; }

E. public int setLimit() { return this.limit; }
```

- 2. With which of the following values can a boolean primitive be initialized? (choose all correct answers)
- A. true
- B. false
- C. nu11
- D. 0
- E. -1
- 3. Multiple inheritance is one of the key concepts of the Java programming language:
  - A. The statement is true
  - B. The statement is false

8. Which of the given code fragments will compile without errors? (choose all correct answers)

```
A. float f=3.5;
B. double d=3.5;
C. int i=10;
D. char c = "C";
```

- 9. Which of the following statements about *abstract classes* in Java are true? (choose all correct answers)
- A. A class must be declared abstract if one or more methods are abstract
- B. A class can be declared abstract if one or more methods are abstract
- C. A class can be declared abstract if it has no abstract methods
- D. An abstract class cannot be instantiated
- 10. The following Java code compiles without errors:

```
interface IFace1 {
          public int calcOne();
}
interface IFace2 implements IFace1 {
          public int calcTwo();
}
```

- A. The statement is true
- B. The statement is false

11. Which of the following statements about the Concrete class are true? (choose all correct answers)

```
public class Concrete {
    private String name;
    Concrete(String name) {
        this.name = name;
    }
}
```

- A. The Concrete class has an instance variable called name
- B. The Concrete class has a default constructor
- C. The Concrete class must be declared abstract in order to compile without errors
- D. The Concrete class can be instantiated with:

```
Concrete c = new Concrete();
```

E. The Concrete class can be instantiated with:

```
Concrete c = new Concrete("name");
```

F. The Concrete class can be instantiated with:

```
Concrete c = Concrete.instance("name");
```

12. What is the result of compiling and running the following code? (choose the correct answer)

```
class SuperClass {
       public void invokeMethod() {
               System.out.println("SuperClass");
       }
}
class SubClass extends SuperClass {
       public void invokeMethod() {
               System.out.println("SubClass");
       }
}
public class TestClass {
       public static void main(String args[]) {
               SuperClass clazz = new SubClass();
               clazz.invokeMethod();
       }
}
 Α.
      SuperClass
```

- В. SubClass
- C. SubClass SuperClass
- D. Compilation fails
- 13. Which of the following statements about the school and student classes are true? (choose all correct answers)

```
class Student {}
class School {
     private Student student[];
}
```

- A. A School is associated with one Student
- B. A School is associated with many Students
- C. The School class implements multiplicity using an array
- D. student[] is navigable through the School class

14. What is the result of compiling and running the following code? (choose the correct answer)

```
public class LoopCheck {
    public static void main(String args[]) {
        int i = 0;
        int x = 10;
        while ( x > 6 ) {
            System.out.print(++i + " ");
            x--;
        }
    }
}

A. 1 2 3 4 5
B. 0 1 2 3 4
C. 1 2 3 4
D. 0 1 2 3
```

15. Which of the following statements about the scopeCheck class are true? (choose all correct answers)

```
public class ScopeCheck {
    private String name;
    private int age;
    public String call(String s) {
        String text;
        return s;
    }
}
```

- A. The variables name and age are instance variables
- B. The variable text is a method parameter variable
- C. The variable text is a local variable
- D. Compilation fails because variable text is not initialized

16. What will be the result of compiling and running the following code? (choose the correct answer)

```
public class Intializer {
      private int i = -1;
      private boolean b = true;
      private String s = "";
      public static void main(String args[]) {
             Intializer iz = new Intializer();
            System.out.println(iz.i + " " + iz.b + " " + iz.s);
      }
}
A. -1 true null
B. -1 true
C. 0 false null
D. Compilation fails
17. Which of the following options are valid Java operators? (choose all correct
answers)
A. =>
B. +=
C. &
D. =!
E. ||
18. Which of the following statements represent correct import statements at the
beginning of a Java source file? (choose all correct answers)
A. import java.util.*;
B. import java.io;
C. import java.util.Enumeration
```

D. import java.net.URL;

19. Which of the following options will compile the source file Destination.java and place the generated class files in c:\devel\dist? (choose the correct answer)
A. javac -dest c:\devel\dist Destination.java
<pre>B. javac -D=c:\devel\dist Destination.java</pre>
C. javac -d c:\devel\dist Destination.java
D. javac Destination.java -D c:\devel\dist
20. Which <i>J2EE service</i> enables applications to look up resources bound to a directory structure?
A. JMS
B. SQL
C. JNDI
D. RDBMS
21. Select the appropriate <i>Java edition</i> for the following application: the application is deployed as a JAR file on a PDA.
deployed as a JAR file on a PDA.
deployed as a JAR file on a PDA.  A. J2ME
deployed as a JAR file on a PDA.  A. J2ME  B. J2EE
deployed as a JAR file on a PDA.  A. J2ME B. J2EE C. J2SE  22. Which of the following statements about <i>applets</i> are true? (choose all correct
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- 23. Which of the following statements about *AWT components* are true? (choose all correct answers)
- A. AWT components are called lightweight components because they are easy to develop
- B. AWT components are called lightweight components because they don't use much memory
- C. AWT components are called heavyweight components because they rely on the underlying native GUI
- D. The look-and-feel of a java.awt.Button on a Microsoft Windows System is the same as on a Unix System
- 24. Information about the history of viewed items for an online shop user should be kept for the whole time the user spends on the shop site. Which object is an appropriate way to store this data?
- A. HttpServletResponse
- B. HttpServletRequest
- C. EnterpriseSession
- D. HttpSession
- 25. Which of the following statements about Servlets are true? (choose all correct answers)
- A. The communication between a web client and a servlet is asynchronous
- B. WSDL is used to describe a servlet
- C. A Servlet is a Java component deployed on a J2EE server
- D. A Servlet can handle GET and POST requests