```
1. Which is required for refactoring to take place?
      a. Use cases
      b. Known requirements
      c. Functioning Code
      d. Test Cases
      e. State Diagrams
2. class Stadium {
         double getTicketPrice() {
              double returnValue = 0;
              switch (getConcert().getEventClass()) {
                    case Concert.PREMIUM:
                          returnValue = getAmount() * 2;
                         break;
                    case Concert.NORMAL:
                          returnValue = getAmount();
                         break;
                    case Concert.BASIC:
```

break;

return returnValue;

}

How do you use polymorphism during code refactoring for the sample code above?

returnValue = getAmount() * 0.5;

- a. Move the calculation of the ticket price to distinct subclasses of the Concert class.
- b. Inline the getAmount() code into each case statement.
- c. Use a series of "if-else" clauses instead of a switch statement.
- d. Pass the Concert enum to another method of Stadium to calculate the ticket price.
- e. Create a static Map where the key is the Concert type and the value is the associated price factor, and get that factor at runtime.

3. Sample Code

```
String strCase1 = someTest.getSomeProperties1();
 strCase1 = doSomething(strCase1);
  String strCase2 = someTest.getSomeProperties2();
  strCase2 = doSomething(strCase2);
  String strResult = strCase1 + strCase2;
  someTest.setSomeProperties(strResult);
How do you refactor the sample code above to function the same?
   a. someProperties.setSring(
     doSomething(someCase1.getSomeProperties1()) +
     doSomething(someCase2.getSomeProperties2()));
  b. someResult.setSomething( doCase1(someProperties.getStr())
     + doCase2(someProperties.getStr()));
   c. someTest.setProperties(
     doTest(someResult.getSomeProperties1()) +
     doTest(someResult.getSomeProperties2()));
  d. someTest.setSomeProperties(
     doSomething(someTest.getSomeProperties1()) +
     doSomething(someTest.getSomeProperties2()));
   e. someCase.setSomething(
     doSomething(someCase.getSomeResult1())
     +doSomething(someCase.getSomeResult2()));
```

4. scenario

A program has numerous Service and DAO classes that have the same 30-line exception code block set which repeats throughout the code.

Based on the scenario above, how do you refactor the code?

- a. Throw the exception handling into a loop, and run it each time an error occurs.
- b. Insert a try-catch-finally block of code where the exception code block occurs.
- c. Go through and rewrite the code so it has more documentation and is easier to read.
- d. Extract the exception handling into a method, and then call that method as necessary.
- e. Change the observable behavior of the code so it operates more efficiently.

```
5. Line 1 package com.sample.TestExamples;
  Line 2 import java.io.*;
  Line 3 public class DocumentationSample
                   implements Serializable {
  Line 5 // *** Additional Code ***
  Line 6 }
  Based on the sample code above, to provide a documentation
  comment that describes the purpose of the class
  DocumentationSample, you insert:
      a. /**java.awt...*/ into the code above the class
      b. @see java.awt... into the code below the class
      c. @see java.awt... into the code above the class
      d. /*** java.awt... into the code below the class
      e. <** java.awt... into the code below the class
Sample Code
   public void aMethod(String arg) {
   }
   In the sample code above, which Method comment do you use to
   document the parameter in a single word Description in
   javadoc?
      a. @parameter Description
      b. @param Description
      c. @parameter String arg Description
      d. @parameter method arg Description
      e. @param arg Description
7. When using the javadoc utility, which statement do you use to
  format javadoc-style comments?
      a. <!-- comment -->
      b. @doc{{ comment }}
      c. /** comment */
      d. // comment //
      e. /* comment */
```

```
8. Line 1 public @interface Example {
   Line 2
              String newValue();
   Line 3
              String oldValue();
   Line 4 }
   Which code snippet do you insert above Line 1 in the sample
   code above to complete the creation of a custom annotation?
      a. object.getClass().getAnnotations()
         = m.Annotations
      b. annotation = m.getAnnotation
        create new
      c. @Target(ElementType.***)
        @Retention(RetentionPolicy.***)
      d. java.lang.Annotation
         setting.class.getAnnotation
      e. AnnotationProcessor
        get results
9. public class Test {
   public static void main(String args[]) {
         int i = args.length;
              switch (i) {
                    case 0: System.out.println("Zero");
                    case 1: System.out.println("One");
                    case 2: System.out.println("Two");
                    case 3: System.out.println("Three");
                    default: System.out.println("Default");
              }
         }
   }
   Where do you add @SuppressWarnings("fallthrough") annotation
   to the sample code above for the "javac -Xlint:fallthrough
   Test.java" command to not generate any warnings?
      a. Before each case clause that falls through
      b. Within the javadoc for the class
      c. Within the class import declaration
      d. Immediately above the switch statement
      e. Above the main method declaration
```

```
10. Code
   public class Sample {
        String name;
        private Sample(String name) {
              this.name = name;
        @Override
        public int hashCode() {
               return name.hashCode();
        @deprecated
        public static String getCompanyName() {
              return "Example";
         }
        public String getName() {
               return name;
  Why is there a compilation error in the sample code above?
        a. The annotation for deprecated methods is @Deprecated,
           not @deprecated.
        b. The class does not have public constructors.
        c. The annotation for overriding methods is @override,
           not @Override.
        d. The hash code method is spelled hashcode, not
           hashCode.
        e. The class does not have a public no-argument
           constructor.
```

- **11.** What do you call the concept of renaming classes and variables to protect your java code from being reverse engineered and easily read by someone else?
 - a. Commenting
 - b. Obfuscating
 - c. Encrypting
 - d. Decompiling
 - e. Serializing

```
12. Which class must be extended by all notification events for
  JavaBean components?
     a. EventListener
     b. EventObject
     c. Object
     d. Serializable
     e. AWTEvent
13. Sample Code
   public class TestThis {
      private int int value;
      public static void main(String[] args){
         TestThis testThis = new TestThis();
        testThis.setInt value(1);
         int integer = testThis.getInt value();
      public TestThis(){}
      public int getInt value(){
         return int_value;
      }
      public void setInt_value(int value){
         int value = value;
      }
   }
   Based on the sample code above, how do you start the debugger
   and then set a breakpoint in the code?
      a. run TestThis
         >halt at <class id>:<line>
      b. jdb TestThis
         >stop at <class id>:<line>
      c. begin TestThis
         >pause at <class id>:<line>
      d. start TestThis
         >break at <class id>:<line>
      e. jvm TestThis
         >debug at <class id>:<line>
14. Which command line do you use to load the JDWP agent for
  debugging?
      a. run=-Xjdwp:<sub-options>
      b. -runjdwp=<name1>[=<value1>],<name2>[=<value2>]...
      c. -agentlib:jdwp=<sub-options>
      d. -attach host:port
      e. -agent:jdwp=<sub-options>
```

- **15.** Which command line for jdp do you use to remotely debug a Java program?
 - a. -agentlib:jdwp
 - b. -ea.debug:run
 - c. -help:jdwp
 - d. -JWMdebug
 - e. -Xdebug -Xrunjdwp
- **16.** Which command line do you use in jdb debugger to start debugging the TestThis class?
 - a. jdb > TestThis.main()
 - b. jdb > run TestThis
 - c. jdb -run TestThis
 - d. jdb > start TestThis
 - e. jdb TestThis
- **17.** When creating a JavaBean component, how do you make its properties available to users?
 - a. Call a custom BeanInfo string that declares the properties public.
 - b. Declare the Bean's fields public.
 - c. Include public accessor methods of the form getVar() and setVar(val).
 - d. Declare an array of type java.lang.reflect.Field which contains the property names that should be available.
 - e. Implement support for ActionEvent listeners for the fields.
- **18.** Which class do you use to manage a list of listeners for a JavaBean component?
 - a. ControllerEventListener
 - b. ContextList
 - c. ChangeListener
 - d. AWTEventListenerProxy
 - e. CopyOnWriteArrayList

```
19. public void makeValueExample(Object o) {
        // o is an object of an unknown class that follows
        // JavaBean Naming Conventions
        // Set the object's Value property to "Example".
        try{
              //insert code here
         }catch (Exception e){
              System.out.println("Couldn't set the value");
         }
   In the sample code above, which line of code do you insert in
   place of "insert code here" to set the Value property to
   Example?
      a. Class.getMethod(Class.forName(o),new
        String("value")).invoke(o, new String[]{"Example"});
      b. o.getClass().setProperty("Value","Example");
      c. o.getClass().getMethod("setValue").invoke(o, "Example");
      d. new
        PropertyDescriptor("value",o.getClass()).getWriteMethod()
         .invoke(o, "Example");
      e. Bean.getAllPropertyMethods(o).invoke("setValue(java.lang.
        String)","Example");
20. In the Sample code below, on which line you must place a
documentation comment that describes the purpose of the class
DocumentationSample?
   //Line A
   package com.brainbench.TestExamples;
   //Line B
   import java.io.*;
   //Line C
   public class DocumentationSample
   //Line D
         implements Serializable{
   //Line E
        //Some code
a. LINE A
b. LINE B
c. LINE C
d. LINE D
e. LINE E
```