1. Given code below contains overloaded and overridden constructor. Which of the following can be the result of an attempt to compile and execute this code?

class Superclass {

Superclass() {

this(0);

System.out.println(“1”);

}

Superclass(int x) {

System.out.println(“2”+x);

}

}

public class Subclass extends Superclass {

Subclass(int x) {

System.out.println(“3”+ x);

}

Subclass(int x, int y) {

this(x);

System.out.println(“4”+ x + y);

}

public static void main(String[] args) {

new Subclass(2,3);

}

}

* 1. The output is

32

423

* 1. The output is.

20

1

32

423

* 1. The output is

22

32

423

* 1. The output is

5

9

* 1. A Recursive constructor invocation compilation error occurs

Ans: b

1. In Java the two classes below are declared in the same file:

class Parent {

protected static int count=0;

public Parent () { count++; }

static int getCount() { return count; }

}

public class Child extends Parent {

public Child() { count++; }

public static void main(String [] args) {

System.out.println(“Count = “+getCount());

Child obj = new Child();

System.out.println(“Count = “+ getCount());

}

}

Which of the following can be the result of trying to compile and execute this file?

* 1. The file will compile and run and the output will be :

Count = 0

Count = 1

* 1. The file will not compile
  2. The file will compile and run and the output will be :

Count = 1

Count = 2

* 1. The file will compile and run and the output will be : .

Count = 0

Count = 2

* 1. The file will compile but will generate a runtime error

Ans: d

1. In the Java SE statement shown below, which of the following accurately describe the parameter “MyBundle”?

ResourceBundle bundle = ResourceBundle.getBundle(“MyBundle”, currentLocale);

1. An Internet URL
2. The name of a Java class
3. The name of a command line switch
4. The name-prefix of a series of property files.
5. The name of a .Net dll

Ans: d

1. Which of the following are implementations of the Front Controller pattern for full-fledged Spring Web application described by the deployment descriptor below?

<?xml version=”1.0” encoding = “UFT-8”?>

<web-app xmlns = “http://java.sun.com/xml/ns/javaee”

xmlns:xsi=”http://www.w3.org/2001/XMLSchema-instance”

xsi:schemaLocation=”http://java.sun.com/xml/ns/javaee http://java.sun.com/xml/ns/javaee/web-app\_2\_5.xsd”

version = “2.5”>

<display-name>Archetype Created Web Application</display-name>

<servlet>

<servlet-name> Spring MVC Web Application</servlet-name>

<servlet-class>

[Spring Front Controller implementation]

</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>Spring MVC Web Application</servlet-name>

<url-pattern>/\*</url-pattern>

</servlet-mapping>

</web-app>

1. RequestContextListener
2. RequestContextFilter
3. WebApplicationContext
4. DispatcherServlet .
5. ContextLoaderListener

Ans d

1. To troubleshoot a problem in a live system, a class is modified slightly resulting in the code shown below:

import java.util.ArrayList;

import java.util.List;

public List<String> queueSequence;

public void setup()

{try { establishQueueSequence();

}

finally {

cleanupQueueSequence();

System.out.println(“Queue sequence successfully cleaned up”);

}

}

private void cleanupQueueSequence() {

if (queueSequence.size() > 0) {

System.out.println(“Queue size > 0”);

}

}

private void establishQueueSequence() {

if (true) {

throw new IllegalArgumentException();

}

queueSequence = new ArrayList<String>();

}

}

Which of the following can be the result of an attempt to execute the code shown below?

IKMProcessor processor = new IKMProcessor();

processor.setUp();

System.out.println(“Processing complete”);

1. The program runs to completion without exception, but nothing is output
2. The program outputs: Queue sequence successfully cleaned up
3. Processing ends abnormally with an IllegalArgumentException
4. Processing ends abnormally with a NullPointerException .
5. The program outputs: Processing complete

Ans: d

1. Which of the following are valid results of executing the JavaScript code snippet below?

<body onLoad=”hi()” onUnload = “bye()”>

<script language=javascript>

var nm= “ ”;

function hi() {

nm= prompt(“Hello! Your name?”, “ “);

}

{

Function bye() { alert(“Goodbye “ + nm);

}

</script>

</body>

1. There is no visible output when the document loads
2. After the document loads, a welcome message is displayed and the user is prompted for a name.
3. A syntax error is displayed when function hi() is executed
4. When the user request another URL, a good-bye message is displayed.
5. The document displays and error message, since all functions must be in the <HEAD>section of the document

Ans: b,d

1. Which of the following Java Native Interface (JNI) types and keywords map to their machine-dependent Java equivalents?
2. const : constant
3. void : void .
4. jintArray : int []
5. jlong : long.
6. jarray : array

Ans: b,d,,

JNI,javah,swing and awt, jvm

1. Which of the following statements are valid about the JDBC code snippet below, written for a Java EE environment?

imports here

…..

public class MyJDBCInsertServlet extends HttpServlet {

@Resource (name=”jdbc/TimetableDBPool”)

private DataSource dataSource;

@Override

protected void doGet (httpServletRequest request, HttpServletResponse

response) throws ServletException, IOException {

String insertSql= “INSERT INTO purchase\_order (id, description)

VALUES (?,?)”;

try {

Connection connection = dataSource.getConnection();

PreparedStatement insertStatement =

connection.prepareStatement(insertSql);

insertStatement.setInt(1, 12345);

insertStatement.setString(2, “QAC Demo”);

insertStatement.executeInsert(); ….

insertStatement.close();

connection.close();

}

catch (SQLException e) {

e.printStackTrace();

}

}

}

1. The code will not compile
2. The code will throw an IndexArrayOutOfBoundsException
3. After execution, a record will be added to the purchase\_orders table with id=12345 and description=”QAC Demo”
4. A SQLException will be caught, then the code will continue execution
5. The code will throw a NullPointerException

Ans: a

1. Which of the following statements correctly describe Hibernate caching?
2. Caching causes extra database activity
3. Caching dynamic data will improve application performance
4. Hibernate bypasses the session cache by default
5. Cached data resides between the application and the database
6. Hibernate does not support second level caching

Ans: b,d

1. Before forwarding the request to a JSP, a Java servlet executes the code below:

java.util.ArrayList peopleNames = new java.util.ArrayList();

peopleNames.add(“John”);

peopleNames.add(“Michelle”);

peopleNames.add(“Michael”);

peopleNames.add(“Susan”);

request.setAttribute(“favoriteNames”, peopleNames);

In the JSP, which of the following EL statements will cause one or more of these names to be shown on the web page?

* 1. Second name is ${peopleNames[1]}
  2. Last name is ${favoriteNames[“Susan”]}
  3. Names are ${favoriteNames}
  4. Initial name is ${favoriteNames[ “O”]}
  5. Favorite names are ${peopleNames}

Ans: c

1. A company is building a new application which stores all employee information
2. @Entity
3. public class Company {
4. @Id
5. @Column(name=”company\_id”)
6. private String id;
7. private String employeeNumber;
8. @Column(name=”employee\_number”)
9. public void setEmployeeNumber (String value) {
10. price = value;
11. }
12. }

When the above code is executed, a mapping exception is thrown, which of the

following changes will allow the code to successfully execute?

* 1. Add at Line 12:

public void setId(String value) {

id = value;

}

* 1. Remove Line 3
  2. Remove Line 4
  3. Move Line 8 to Line 6
  4. Update Line 8 to @Column(name=”employee\_number\_id”)

Ans: a,d

1. Which of the following statements correctly describe the use of Java Native Interface (JNI)?
   1. JNI imports and converts non-Java code into a Java application
   2. JNI provides an out-of-the-box solution to interface with services outside the Java application
   3. JNI allows native operating systems to access Java based applications by bypassing the Java Virtual Machine (JVM)
   4. JNI gives applications direct access to computer hardware
   5. JNI allows applications to use native code in situations where Java cannot be used

Ans: e

1. Which of the following blocks of code can replace the asterisks in the Java Swing code

below to

import java.util.Locale;

import java.util.ResourceBundle;

import javax.swing.JFrame;

public class SwingInternationalizationDemo {

public static void main (String[] args) {

String language;

String country;

Locale locale;

ResourceBundle rb;

\*\*\*\*\*

}

}

* 1. Locale = new Locale();

rb= ResourceBundle.getBundle(“MessageBundle” , locale);

JFrame frame=new JFrame();

frame.setSize(300,300);

frame.setTitle(rb.getString(“frameTitle”));

frame.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

frame.setVisible(true);

* 1. language = Locale.getDefault().getLanguage();

country=Locale.getDefault().getCountry();

locale=new Locale(language, country);

rb= new ResourceBundle(“MessageBundle”, locale);

JFrame frame=new JFrame();

frame.setSize(300,300);

frame.setTitle(rb.getString(“frameTitle”));

frame.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

frame.setVisible(true);

* 1. language = System.getLanguage();

country = System.getCountry();

locale=new Locale(language, country);

rb= ResourceBundle.getBundle(“MessageBundle”, locale);

JFrame frame=new JFrame();

frame.setSize(300,300);

frame.setTitle(rb.getString(“frameTitle”));

frame.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

frame.setVisible(true);

* 1. language = Locale.getDefault().getLanguage();

country=Locale.getDefault().getCountry();

locale=new Locale(language, country);

rb= ResourceBundle.getBundle(“MessageBundle”, locale);

JFrame frame=new JFrame();

frame.setSize(300,300);

frame.setTitle(rb.getString(“frameTitle”));

frame.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

frame.setVisible(true);

* 1. locale = new Locale();

language = System.getDefaultLanguage();

country = System.getDefaultCountry();

locale.setLanguage(language);

locale.setCountry(country);

rb= ResourceBundle.getBundle(“MessageBundle”, locale);

JFrame frame=new JFrame();

frame.setSize(300,300);

frame.setTitle(rb.getString(“frameTitle”));

frame.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

frame.setVisible(true);

Ans C

1. Two Java SE classes are declared as shown below:

package com.ikmnet;

public class MySuper {

protected String buildString(String current) {

return current + “1”;

}

}

package com.ikmnet;

public class MySub extends MySuper {

@override

public String buildString (String current) {

return super.buildString(current);

}

}

A test harness is accessed using the line of code below:

new MyTestHarness().writeString();

Which of the following class declarations for MyTestHarness will result in a console

output of

* 1. package anotherpackage;

import com.ikmnet.MySub;

public class MyTestHarness {

public void writeString() {

MySub object = new MySub();

System.out.println(object.buildString(“O, “));

}

}

* 1. package anotherpackage;

import com.ikmnet.MySub;

import com.ikmnet.MySuper;

public class MyTestHarness {

public void writeString() {

MySuper object = new MySub();

System.out.println(object.buildString(“O, “));

}

}

* 1. package com.ikmnet;

public class MyTestHarness {

public void writeString() {

MySuper object = new MySuper();

System.out.println(object.buildString(“O,”));

}

}

* 1. package anotherpackage;

import com.ikmnet.MySuper;

public class MyTestHarness extend MySuper {

public void writeString() {

MySuper object = new MySuper();

System.out.println(object.buildString(“O, “));

}

}

* 1. package anotherpackage;

import com.ikmnet.MySuper;

public class MyTestHarness {

public void writeString() {

MySuper object = new MySuper();

System.out.println(object.buildString(“O, “));

}

}

Ans: a,c

1. In a Java SE environment, garbage collection is causing performance problems and it is suspected …. Problems are caused by some of the applications making explicit calls to System.gc(). Which of the following JVM

Arguments can be used to test this theory?

* 1. –XX:+DisableExplicitGC
  2. –XX:+UseConcMarkSweepGC
  3. –XX:+UseParNewGC
  4. –XX:+UseParallelGC
  5. –Xverify:none

http://www.oracle.com/technetwork/articles/java/vmoptions-jsp-140102.html

Ans: a

====================================================================

1. A Java EE servlet contains the code below:

public void doGet(HttpServletRequest request, HttpServletResponse response) throws Servletexception, IOException {

…

printWriter out = response.getWriter();

out.println(“<html><body>Please wait…</body></html>”);

out.flush();

out.close();

response.sendRedirect(“BookingPortal.jsp”);

…

}

Which of the following will occur when this code is executed?

* 1. A page containing the text “BookingPortal.jsp”will display
  2. StackOverflowException will be thrown and be visible in the server log
  3. A page containing the text “Please wait…”will briefly display then disappear.
  4. IllegalStateException will be thrown and be visible in the server log.
  5. The HTML for page Bookingportal.jsp will display

Ans : c, d

1. In Java SE, which of the following are true about the string s?

String s = “abcd”;

* 1. The statement

s.equals(“abcd”) will evaluate to true.

* 1. The statement

S == “abcd” will evaluate to true

* 1. s.replace(‘a’,’f’) will modify the string s
  2. Given

String s2=new String(“abcd”);

The statement

s == s2 will evaluate to true

* 1. The statement

s = “abcd” will eval

Ans: a

1. Which of the following statement correctly describe the Java Hibernate framework?
   1. It is an Object Relation Mapping implementation.
   2. It is not supported with Enterprise Java Beans (EJBs)
   3. It increases the complexity of the application
   4. It converts Java objects to database specific SQL statements.
   5. It supports distributed databases

Ans : a,d,e

1. Which of the following do NOT correctly declare a generic java SE class?
2. public class Account<T> {

private T accountType;

public void add(T newType) {accountType= newType;}

public T get() {return accountType;}

}

1. public class Account {

private<T extends Object> accountType;

public void add (<T extends Object> newType) {accountType=newType;}

public<T extends Object> get() {return accountType;}

}.

1. public class Account<T>{

private T accountType;

public void add(T newType) {accountType =newType;}

public T get() { return accountType;}

}

1. public class Account {

private<T> accountType;

public void add(<T> newType){ accountType =newType;}

public Type get() { return accountType; }

}.

1. public class Account(Type){

private Type accountType;

public void add(Type newType){accountType=newType;}

public Type get() { return accountType;}

}.

As: a,c

Ans: b,d,e

1. Which of the following statements are valid about JPA Entities in Java EE?
2. Mapping between java objects and the related databases must be defined using annotations.
3. An entity class must implement a persist() method
4. In an entity class, the annotation @ColumnInTable must be used if a field is to be associated with a column in a table
5. An entity instance corresponds to a table row.
6. An entity is a POJO annotated with the @Entity annotation.

Ans: a,d,e

1. Which of the following are created by the J2SE 5.0 code below?

package pkg;

class Foo {

native int bar(String S);

Static {

System.loadLibrary(“foo\_bar”);

}}

1. A native library called foo\_bar .
2. A mapping in the registry between the java class Foo and a native application called foo\_bar
3. A java class with a native method called bar.
4. A native method called bar, which is used in the native application called foo\_bar
5. A static native class called foo\_bar

Ans: a,c

1. The JavaScript snippet show is to be used by a gaming software company to return the “x” & “y”coordinates of a user’s mouse click. The script must correctly address any current browser challenges as well as Internet Explore support for versions prior to IE6. Which of the following values can be substituted for \*\*\*A\*\*\*, \*\*\*B\*\*\* and \*\*\*C\*\*\* in the JavaScript code to execute correctly?

<script language=”javascript”type=”text/javascript”>

function processClick(evt) {

\*\*\*A\*\*\*

var x = 0; var y = 0;

var result = new Array(2);

var offsetX = 0; offsetY= 0;

if (evt.pageX) {

x=evt.pageX;

y = evt.pageY;

} else if (evt.clientX) {

If (document.documentElement.scrollLeft) {

offsetX = document.documentElement.scrollLeft;

offsetY = document.documentElement.scrollTop;

} else if (document.body) {

offsetX = document.body.scrollLeft;

offsetY = document.body.scrollTop;

}

}

result[0] = evt.clientX + offsetX;

result[1] = evt.clientY + offsetY;

return result;

}

If (document.attachEvent)

\*\*\*B\*\*\*

else

\*\*\*C\*\*\*

</script>

* 1. Replace \*\*\*A\*\*\* with evt=evt || windows.event;

Replace \*\*\*B\*\*\* with document.attachEvent(“onclick”,processClick);

Replace \*\*\*C\*\*\* with document.addEventListener(“click”,processClick, false); .

* 1. Replace \*\*\*A\*\*\* with evt=evt || windows.event;

Replace \*\*\*B\*\*\* with document.attachEvent(“onclick”,processClick, false);

Replace \*\*\*C\*\*\* with document.addEventListener(“click”,processClick);

* 1. Replace \*\*\*A\*\*\* with evt=evt || windows.event;

Replace \*\*\*B\*\*\* with document.addEventListener(“onclick”,processClick);

Replace \*\*\*C\*\*\* with document.attachEvent(“click”,processClick, false);

* 1. Replace \*\*\*A\*\*\* with evt=evt || windows.event;

Replace \*\*\*B\*\*\* with document.attachEvent(“onmouseclick”,processClick, false);

Replace \*\*\*C\*\*\* with document.addEventListener(“mouseclick”,processClick);

Ans: a

1. A User application deals with late binding in its implementation as is shown in the Java SE code snippet

class LB\_1 {

public void retValue() {

System.out.println(“LB\_1”);

}

}

pubicl class LB\_2 extends LB\_1 {

public void retValue() {

System.out.println(“LB\_2”);

}

public static void main(String args[]) {

LB\_1 lb = new LB\_2();

lb.retValue();

}

}

1. A runtime error will occur
2. A compilation error will occur
3. LB\_2
4. LB\_1 LB\_2
5. LB\_1

Ans: c

1. Java EE application is to be built so that some of the functionality can be customized by each customer. The intention is that each customer will be able to write a class to implement the customer behavior then deploy the class with the application. Which of the following are valid approaches that will enable the deployer at the customer site to achieve this?
2. The deployer uses Winzip to add and remove .class files in the EAR file
3. The deployer uses the IDE to code the correct class and runs Junit tests to verify
4. The deployer specifies the classname in a config file. The application code reads the file and uses reflection api to load the class
5. The deployer uses Winzip to add and remove .class files in the RAR file
6. In the container, the deployer adds the Java source code of the class to the classpath

Ans: c

1. In Java SE, which of the following statements are correct about thread management in the main method?
2. The main method runs on daemon thread with a higher priority than the garbage collector’s thread
3. The main method can start a daemon thread that will not affect whether the JVM instance exits
4. When the main method returns, any daemon thread created by it are always automatically terminated
5. Any thread launched by the main method will be a non-daemon thread with the same priority as the original thread
6. When the main method of a program returns, the JVM instance must exit

Explain: When main method is called by default one main thread is created. And main thread is a non-dameon thread. When threads created by the main method it inherits it's parant's property. That means they are all non-daemon threads. As you know JVM waits until all non-daemon threads to complete. So it will executes even after the main thread completes.

B,D