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GSSP-JAVA Exam

GIAC Secure Software Programmer - Java

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Question: 1

Which of the following elements are the subelements of the mime-mapping element in a deployment descriptor file? Each correct answer represents a complete solution. Choose all that apply.

- A. exception-type
- B. error-code
- C. extension
- D. mime-type
- E. servlet-class

Answer: C,D

Question: 2

John works as a Software Developer for VenTech Inc. He writes the following code using Java.

```
public class vClass extends Thread
{
public static void main(String args[])
{
vClass vc=new vClass();
vc.run();
}
public void start()
{
for(int k=0;k<20;k++)
{
System.out.println("The value of k = "+k);
}
}
}
```

What will happen when he attempts to compile and execute the application?

- A. The application will compile successfully and the values from 0 to 19 will be displayed as the output.
- B. A compile-time error will occur indicating that no run() method is defined for the Thread class.
- C. A runtime error will occur indicating that no run() method is defined for the Thread class.
- D. The application will compile successfully but will not display anything as the output.

Answer: D

Question: 3

Which of the following classes is an engine class that provides an opaque representation of cryptographic parameters?

- A. DSAPublicKeySpec
- B. AlgorithmParameterGenerator
- C. DSAParameterSpec
- D. AlgorithmParameters

Answer: D

Question: 4

Which of the following statements about programmatic security are true? Each correct answer represents a complete solution. Choose all that apply.

- A. The bean provider is responsible for writing code for programmatic security.
- B. It is also called as instance level security.
- C. It is implemented using methods of the EJBContext interface.
- D. It is implemented using the methods of the UserTransaction interface.

Answer: A,B,C

Question: 5

Which of the following functions are performed by methods of the HttpSessionActivationListener interface? Each correct answer represents a complete solution. Choose all that apply.

- A. Notifying the object when it is bound to a session.
- B. Notifying an attribute that a session has just migrated from one JVM to another.
- C. Notifying the object when it is unbound from a session.
- D. Notifying an attribute that a session is about to migrate from one JVM to another.

Answer: B,D

Question: 6

Mark works as a Programmer for InfoTech Inc. He develops the following deployment descriptor code.

```
<web-app . . . .>
<display-name>A Secure Application</display-name><servlet>
...
<security-role-ref >
<role-name>Manager</role-name>
<role-link>Admin</role-link>
</security-role-ref>
</servlet>
<security-role>
<role-name>Programmer</role-name>
</security-role>
```

```
<security-role>
<role-name>Admin</role-name>
</security-role>
<security-role>
<role-name>Employee</role-name>
</security-role>
</web-app>
```

Which of the following is a valid `isUserRole()` method call that can be made if request is the `HttpServletRequest` request?

- A. `request.isUserRole("Programmer");`
- B. `request.isUserRole("Manager");`
- C. `request.isUserRole("Admin");`
- D. `request.isUserRole("Employee");`

Answer: B

Question: 7

Which of the following methods of the `EJBContext` interface can be called by both the BMT and CMT beans? Each correct answer represents a complete solution. Choose all that apply.

- A. `getCallerPrincipal()`
- B. `getRollbackOnly()`
- C. `getUserTransaction()`
- D. `isCallerInRole()`

Answer: A,D

Question: 8

Mark works as a Programmer for InfoTech Inc. He develops a deployment descriptor code that contains three valid `<security-constraint>` elements. All of them constraining a Web resource Res1, the `<auth-constraint>` sub-element of the `<security-constraint>` elements are as follows.

```
<auth-constraint>Admin</auth-constraint>
<auth-constraint>Manager</auth-constraint>
<auth-constraint/>
```

Which of the following can access the resource Res1?

- A. Only Manager can access the resource.
- B. No one can access the resource.
- C. Everyone can access the resource.
- D. Only Admin can access the resource.

Answer: B

Question: 9

Which of the following statements correctly describe the features of the singleton pattern? Each correct answer represents a complete solution. Choose all that apply.

- A. Singletons are used to control object creation by limiting the number to one but allowing the flexibility to create more objects if the situation changes.
- B. Singletons can only be stateless, providing utility functions that need no more information than their parameters.
- C. A singleton class may disappear if no object holds a reference to the Singleton object, and it will be reloaded later when the singleton is needed again.
- D. The behavior of a singleton can be obtained by static fields and methods such as `java.lang.Math.sin(double)`.

Answer: A,C,D

Question: 10

Which of the following deployment descriptor elements must contain the `<transport-guarantee>` element as its mandatory sub-element?

- A. `<user-data-constraint>`
- B. `<web-resource-collection>`
- C. `<auth-constraint>`
- D. `<login-config>`

Answer: A

Question: 11

Given a code of a class named `PrintString` that prints a string.

1. `public class PrintString{`
2. `public static void main(String args[]){`
3. `/*insert code here */`
4. `/* insert code here */`
5. `System.out.println(str);`
6. `}`
7. `}`

Which of the following code fragments can be inserted in the class `PrintString` to print the output "4247"?

Each correct answer represents a complete solution. Choose all that apply.

- A. `StringBuilder str= new StringBuilder("123456789");`
`str.delete(0,3).replace(1,3,"24").delete(4,6);`
- B. `StringBuffer str= new StringBuffer("123456789");`
`str.delete(0,3).replace(1,3,"24").delete(4,6);`
- C. `StringBuffer str=new StringBuffer("123456789");`
`str.substring(3,6).delete(1,2).insert(1,"24");`

```
D. StringBuilder str= new StringBuilder("123456789");
str.deleteCharAt(6).replace(1,3,"24").delete(0,3);
E. String str="123456789";
str=(str-"123").replace(1,3,"24")-"89";
```

Answer: A,B

Question: 12

Mark writes a class Practice.java. This class needs to access the com.bar.Test class that is stored in the Test.jar file in the directory /practice. How would you compile your code?

- A. javac -classpath /practice/Test.jar Practice.java
- B. javac -classpath /practice/ Practice.java
- C. javac -classpath /practice/Test.jar/com/bar Practice.java
- D. javac -classpath /practice Practice.java

Answer: A

Question: 13

Which of the following statements is true?

- A. All UTF characters are eight bits long.
- B. All UTF characters are all sixteen bits long.
- C. All UTF characters are twenty four bits long.
- D. All bytecode characters are sixteen bits long.
- E. All unicode characters are sixteen bits long.

Answer: E

Question: 14

John works as a Programmer for Technostar Inc. He writes the following code using Java.

```
1. class WrapperClass{
2. public static void main(String[] argv){
3. String str2 = Double.toString(12);
4. String str1 = Double.toHexString(12);
5. System.out.println(str1+str2);
6. }
7. }
```

What will happen when John attempts to compile and execute the code?

- A. It will not compile because the Double class does not contain the toHexString() method.
- B. It will compile and execute successfully and will display 8p312 as the output.
- C. It will compile and execute successfully and will display 0x1.8p312.0 as the output.
- D. It will not compile because the Double class does not contain the toString() method.

Answer: C

Question: 15

Mark works as a Programmer for InfoTech Inc. He develops a Website that uses HTML and processes HTML validation. Which of the following are the advantages of the HTML application?
Each correct answer represents a complete solution. Choose all that apply.

- A. It provides password protection for a Web page or directory
- B. It can be accessed by more visitors.
- C. It provides faster loading.
- D. It is easier to update and maintain the site.
- E. It protects the source or images of a HTML Web page.
- F. It puts less load on the server.

Answer: B,C,D,F

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