



# GIAC

## GSSP-JAVA Exam

### GIAC Secure Software Programmer - Java

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**Question: 1**

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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

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**Answer: C,D**

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**Question: 2**

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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.

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**Answer: D**

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**Question: 3**

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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

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**Answer: D**

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#### **Question: 4**

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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.

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**Answer: A,B,C**

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#### **Question: 5**

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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.

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**Answer: B,D**

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#### **Question: 6**

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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 `isUserInRole()` method call that can be made if request is the `HttpServletRequest` request?

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

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**Answer: B**

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**Question: 7**

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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()`

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**Answer: A,D**

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**Question: 8**

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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.

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**Answer: B**

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**Question: 9**

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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)`.

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**Answer: A,C,D**

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### Question: 10

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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>`

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**Answer: A**

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### Question: 11

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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";`

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**Answer: A,B**

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### Question: 12

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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`

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**Answer: A**

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### Question: 13

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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.

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**Answer: E**

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### Question: 14

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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.

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**Answer: C**

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**Question: 15**

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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.

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**Answer: B,C,D,F**

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