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## GIAC Secure Software Programmer – Java

GIAC GSSP-Java

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## Topic Break Down

Topic	No. of Questions
Topic 1, Volume A	96
Topic 2, Volume B	94
Topic 3, Volume C	85
<b>Total</b>	<b>275</b>

## QUESTION NO: 1

Identify whether the given statement is true or false.

"A try statement can be placed inside the code block that follows another try statement."

- A. True
- B. False

**ANSWER: A**

## QUESTION NO: 2

Which of the following are valid code samples for creating file permissions? Each correct answer represents a complete solution. Choose all that apply.

- A. `FilePermission per = new FilePermission("-", "read, execute");`
- B. `FilePermission per = new FilePermission("<>", "read");`
- C. `FilePermission per = new FilePermission("file1", "read, write");`
- D. `FilePermission per = new FilePermission("/bin/*", "execute");`
- E. `FilePermission per = new FilePermission("/tmp/myfile", "read, delete");`
- F. `FilePermission per = new FilePermission("/*", "read");`

**ANSWER: A B C D E**

## QUESTION NO: 3

Mark works as a Programmer for InfoTech Inc. He develops the following code snippet. `package Mark.tutorial.javaee.ejb; import java.util.logging.Logger; import javax.annotation.Resource; import javax.ejb.Stateless; import javax.ejb.Timeout; import javax.ejb.Timer; import javax.ejb.TimerService;`

```
@Stateless
```

```
public class TimerBean implements TimerSessionBean {
```

```
@Resource
```

```
TimerService timerService;
```

```
private static final Logger logger = Logger.getLogger
```

```
("com.sun.tutorial.javaee.ejb.timersession.TimerSessionBean");  
public void createTime(long intervalDuration) {  
    Timer timer = timerService.createTimer(intervalDuration, "New timer created");  
}  
@Timeout  
public void timeout(Timer timer) {  
    logger.info("Timer Timeout");  
}  
}
```

which of the following statements are true about the code?

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

- A. The class Logger cannot be used with a stateless session bean.
- B. The EJB container will invoke the timeout method of TimerSessionBean when the timer expires.
- C. The class is using the createTime method incorrectly because it creates a new timer.
- D. TimerBean is a stateless session bean that shows how to set a timer.

**ANSWER: B D**

## QUESTION NO: 4

The following JSP scriptlet is given.

```
<% response.setContentType("text/html; charset=ISO-8859-1"); %>
```

Which of the following directives is the equivalent directive for the scriptlet given above?

- A. `<%@ include contentType="text/html; pageEncoding=ISO-8859-1" %>`
- B. `<%@ include contentType="text/html; charset=ISO-8859-1" %>`
- C. `<%@ page contentType="text/html; charset=ISO-8859-1" %>`
- D. `<%@ taglib contentType="text/html; pageEncoding=ISO-8859-1" %>`

**ANSWER: C**

## QUESTION NO: 5

You have written the following code snippet.

```
1. public class Read {  
2. protected int ReadText(int x) { return 0; }  
3. }  
4. class Text extends Read {  
5. /*insert code here*/6. }
```

Which of the following methods, inserted independently at line 5, will compile?

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

- A. `private int ReadText(long x) { return 0; }`
- B. `protected long ReadText(int x, int y) { return 0; }`
- C. `protected long ReadText(long x) { return 0; }`
- D. `protected int ReadText(long x) { return 0; }`
- E. `private int ReadText(int x) { return 0; }`
- F. `public int ReadText(int x) { return 0; }`
- G. `protected long ReadText(int x) { return 0; }`

**ANSWER: A B C D F**

## QUESTION NO: 6

According to the EJB programming restrictions, which of the following should be used to access the files or directories?

- A. A resource manager API
- B. An output device such as screen display
- C. An enterprise bean
- D. An input device such as a keyboard

**ANSWER: A**

## QUESTION NO: 7

Identify whether the given statement is true or false.

"When an exception occurs in a try block, each catch statement following the try block is inspected in sequential order, and the last one whose type matches that type of exception is executed."

- A. False
- B. True

**ANSWER: A**

## QUESTION NO: 8

Mark works as a Programmer for InfoTech Inc. He wants to develop a JMS API application that is used as a messaging service application. He writes the following createSession() method. `session = connection.createSession(false, 2);`

Which of the following statements are true about the syntax?

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

- A. The client acknowledges a consumed message by calling the message's acknowledge method.
- B. The acknowledge method can reduce session overhead by minimizing the work the session does to prevent duplicates.
- C. This method instructs the session to lazily acknowledge the delivery of messages.
- D. The session automatically acknowledges a client's receipt of a message.
- E. If a message consumer consumes eight messages and then acknowledges the fourth message delivered, all eight messages are acknowledged.

**ANSWER: A E**

## QUESTION NO: 9

Which of the following methods of the HttpServletResponse interface is used for URL rewriting? Each correct answer represents a complete solution. Choose all that apply.

- A. encodeURL
- B. encodeRedirectURL
- C. sendRedirect
- D. getRequestURL()

**ANSWER: A B**

## QUESTION NO: 10

You work as a developer for PassGuide Inc. You have implemented a session bean with a method `doPrint()`, which behaves differently depending on the caller's security role. Only `MANAGER` in the security roles `"ADMIN"` and `"MANAGER"` are allowed to call the method. Which of the following actions are appropriate to accomplish if there is no security-related metadata in the deployment descriptor?

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

- A. If `EJBContext.getCallerPrincipal` returns role `"ADMIN"`, implement the behavior for `MANAGER` in role `ADMIN`.
- B. If `EJBContext.isCallerInRole("ADMIN")` returns true, implement the behavior defined for `MANAGER` in role `"ADMIN"`.
- C. Annotate method `doPrint()` with `@RolesAllowed({"ADMIN","MANAGER"})`.
- D. Annotate method `doPrint()` with `@PermitAll`.

ANSWER: B C

## QUESTION NO: 11

Which of the following elements of the `java.util.logging` package exports objects to a variety of destinations including memory, output streams, consoles, files, and sockets?

- A. `LogRecord`
- B. `Filter`
- C. `Logger`
- D. `Handler`

ANSWER: D

## QUESTION NO: 12

You develop an application. Now you want to ensure that data is sent between client and server in such a way that it cannot be changed in transit. Which of the following element declarations will be specified to satisfy the requirement of the application?

```
A. <user-data-constraint>
<transport-guarantee>INTEGRAL</transport-guarantee>
</user-data-constraint>
B. <user-data-constraint>
<transport-guarantee>CONFIDENTIAL</transport-guarantee> </user-data-constraint>
C. <user-data-constraint>
<transport-guarantee>NONE</transport-guarantee>
</user-data-constraint>
D. <auth-constraint>
<transport-guarantee>CONFIDENTIAL</transport-guarantee> </auth-constraint>
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**ANSWER: A**

## QUESTION NO: 13

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

- A. It can have at the most one sub-element.
- B. It has as one of its sub-elements.
- C. If there is no sub-element, no HTTP method will be constrained.
- D. It is a sub-element of the element.

**ANSWER: B D**

## QUESTION NO: 14

Which of the following is the appropriate deployment descriptor elements entry for the code given below? @RunAs("admin")  
@Stateless public class StudentBean implements Student { //more code ...  
}

A. <enterprise-beans>

```
...
<session>
.
<ejb-name>Student</ejb-name>
...
<security-identity>
<run-as>
<method-permission>admin</method-permission>
</run-as> </security-identity>
...
</session>
..
</enterprise-beans>
```

B. <enterprise-beans>

```
...
<session>
.
<ejb-name>Student</ejb-name>
...
<security-identity>
<run-as>
<role-name>admin</role-name>
</run-as> </security-identity>
...
</session>
..
</enterprise-beans>
```

```
C. <enterprise-beans>
...
<session>
.
<ejb-name>Student</ejb-name>
...
<security-identity>
<run-as>
< security-role-ref>admin</ security-role-ref>
</run-as> </security-identity>
...
</session>
..
</enterprise-beans>
D. <enterprise-beans>
...
<session>
.
<ejb-name>Student</ejb-name>
...
<security-identity>
<run-as>admin</run-as>
</security-identity>
...
</session>
..
</enterprise-beans>
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**ANSWER: B**

## QUESTION NO: 15

You write the following code. class Father {public void Method() {System.out.println("I am Father");}}  
public class Son extends Father {public static void main(String argv[]) {Son son = new Son

```
()son.Method();}
```

```
private void Method() {System.out.println("I am Son");}}
```

Which of the following will be the result, when you try to compile and run the code?

- A. I am Father will be displayed as the output.
- B. A runtime error will result.
- C. I am Son will be displayed as the output.
- D. The code will execute but without displaying any output.
- E. A compile-time error will result.

**ANSWER: E**