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Exam : **GSSP-Java**

Title : GIAC Secure Software Programmer – Java

Version : Demo

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

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

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

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

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

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 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");
Answer: B

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

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

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

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

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

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

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

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

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

16.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

17.You work as a Software Developer for UcTech Inc. You create a session using the HttpSession interface. You want the attributes to be informed when the session is moved from one JVM to another and also when an attribute is added or removed from the session. Which of the following interfaces can you

use to accomplish the task?
Each correct answer represents a complete solution. Choose all that apply.
A. HttpSessionBindingListener
B. HttpSessionListener
C. HttpSessionActivationListener
D. HttpSessionAttributeListener
Answer: C,D

18.Which of the following statements are true?
Each correct answer represents a complete solution. Choose all that apply.
A. An inner class cannot be defined as private.
B. An inner class cannot be defined as protected.
C. An inner class can be defined as private.
D. An inner class can extend another class.
Answer: C,D

19.You work as a programmer for PassGuide.Inc. You have a session object named session1 with an attribute named Attribute1, and an HttpSessionBindingEvent object binding1 bound to session1.
Which of the following will be used to retrieve Attribute1?
Each correct answer represents a complete solution. Choose all that apply.
A. Object obj=binding1.getSession().getAttribute("Attribute1");
B. Object obj=binding1.getAttribute("Attribute1");
C. Long MyAttribute=session1.getAttribute("Attribute1");
D. String str1=session1.getAttribute("Attribute1");
E. Object obj=session1.getAttribute("Attribute1");
Answer: A,E

20.Which of the following statements about a JAR file are true?
Each correct answer represents a complete solution. Choose all that apply.
A. It cannot be accessed through a class path, nor they can be used by java and javac.
B. It is used to compress and archive data.
C. It can be moved from one computer to another.
D. It is created by using the jar command.
Answer: B,C,D