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1z0-900

Java EE 7 Application Developer

Exam A

QUESTION 1

You need to develop a chat application, which allows the display of emoticons and images together with text messages.

How should you configure a WebSocket endpoints to receive both text and binary messages?

- A. Create two @onMessage methods in the same endpoint with appropriate parameter types.
- B. Define the <code>@onMessage</code> methods in your endpoint with <code>Object</code> as parameter and check the actual type in your code.
- C. You can achieve this only by creating separate WebSocket endpoints for each message type.
- D. Create two @onMessage methods, each with appropriate decoder attribute in the same endpoint.

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

Reference: https://abhirockzz.gitbooks.io/java-websocket-api-handbook/content/Receiving%20Messages.html

QUESTION 2

Which two capabilities are provided by the Java Authentication and Authorization Services (JAAS) API? (Choose two.)

- A. protecting data from unauthorized viewing by using encryption
- B. verifying that a user is allowed to perform an action
- C. ensuring that data is not modified in transit
- D. verifying identity claims from users

Correct Answer: BC Section: (none) Explanation

Explanation/Reference:

Reference: https://docs.oracle.com/javase/8/docs/technotes/guides/security/jaas/JAASRefGuide.html

QUESTION 3

Which interface should you implement if you want to be alerted to the lifecycle events surrounding your task being executed by a ManagedExecutorService?

- A. the Runnable Interface
- B. the ManagedExecutorTask interface

- C. the TaskEventListener interface
- D. the ManagedTaskListener interface

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

Reference: https://github.com/javaee/concurrency-ee-spec/blob/master/api/src/main/java/javax/enterprise/concurrent/ManagedExecutorService.java

QUESTION 4

Given the code fragment:

```
@Path ("Employees")
public class EmployeesResource (
    @Inject privace EmployeeManager em;
     @Get
     @Path("{id:[A-Z] [0-9]+}")
    public Employee getEmployee(@PathParam("id") String id) {
        return em.findEmployee(id);
     )
}
```

Which URL triggers the invocation of the ${\tt getEmployee}$ () method?

- A. <base url>/Employees/89724
- B. base url/Employees/J6349
- C. <base url>/Employees/id:a7280
- D. <base url>/Employees/id/J6349

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

QUESTION 5

What is true about Message-Driven Beans (MDBs)?

- A. MDBs can participate in transactions.
- B. MDBs are invoked synchronously.
- C. Each MDBs can process messages only from a single client.
- D. MDBs retain data caches between client calls.

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

Reference: https://docs.oracle.com/javaee/7/tutorial/ejb-intro003.htm

QUESTION 6

You have been asked to implement internationalization in your JSF web application.

Where do you configure the supported locales?

- A. in the <f:view> tag of the Facelet page
- B. in the web.xml file
- C. in the faces-config.xml file
- D. in the src folder

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

QUESTION 7

Given the code fragment:

```
1: @ReguestScoped
2: public class BankActivityService {
3:
4: public void notifyDebit(BankEvent be) {}
5:
6:
7: public void notifyCredit(BankEvent be) {}
8:
9:}
```

Which code can be added to register both of these methods to receive BankEvent notifications only if an instance of BankActivityService is already instantiated in the current context?

```
A. @Observes(notifyObserver=IF_EXISTS) on line 3 and line 6
```

B. @Observes(during=IN_PROGRESS) on line 1

 ${\sf C.}$ @Observes(during=AFTER_COMPLETION) on line 1

D. @Observes(notifyObserver=IF_EXISTS) on line 4 and line 7 before method parameter declaration

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

Reference https://docs.oracle.com/javaee/7/tutorial/cdi-adv005.htm

QUESTION 8

Which code snippet prints the exception error message as part of the page output?

```
A. <%= exception.message %>
```

B. <c:out value="\${requestScope['javax.servlet.error.exception']}"/>

C. <% exception.getMessage(); %>

D. <% System.out.println(e.getMessage()) %>

Correct Answer: D

Section: (none) Explanation

Explanation/Reference:

Reference: https://www.geeksforgeeks.org/3-different-ways-print-exception-messages-java/

QUESTION 9

Java EE's support for WS-Security includes handling which two types of security credentials? (Choose two.)

- A. X.509 certificates
- B. SAML tokens
- C. OAuth Bearer tokens
- D. Two-factor authentication tokens

Correct Answer: AB Section: (none) Explanation

Explanation/Reference:

QUESTION 10

Given the code fragment from a Facelet page:

On Line 1, you ae asked to insert a search box that displays the text "Search Here" via a placeholder. Assume searchMB is a valid Managed Bean.

Which two options enable you to create a search box with a placeholder attribute on Line 1? (Choose two.)

```
A. <h:inputText value="#(searchMB.query)">
     <f:param name="placeholder" value="Search Here"/>
     </h:inputText>
```

- B. <h:inputText value="#(searchMB.query)" placeholder="Search here"/>
- C. <input jsf:id="search" placeholder="Search here" jsf:value="# (searchMB.query)"></input>
- D. <h:inputText pt:placeholder="Search Here" value="#(searchMB.query)"/>
- E. <input id="search" jsf:placeholder="Search Here" value="\$(searchMB.query)"></input>

Correct Answer: CE Section: (none) Explanation

Explanation/Reference:

QUESTION 11

Given the code fragment:

- JAXBContext jc = JAXBContext.newInstance("com.oracle.foo");
- Unmarshaller u = jc.createUnmarshaller();
- 3.
- InputStream in = new FileInputStream("fooStuff.xml");
- 5. Object o = u.unmarshal (in);

Which method should be used on line 3 to enable default validation mechanism?

- A. u.setProperty(String, Object)
- B. u.setProperty(Schema)
- C. u.setEventHandler(ValidationEventHandler)
- D. u.setAdapter(XmlAdapter)

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

Reference: https://docs.oracle.com/javaee/6/api/javax/xml/bind/Unmarshaller.html

QUESTION 12

How do you specify a default error page in your web.xml file?

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

Reference: http://www.codejava.net/java-ee/servlet/how-to-handle-error-in-web-xml-for-java-web-applications

QUESTION 13

Given the code fragment:

```
Account.java:
 public class Acount {
        private int accId = 12345;
        //getters and setters
  Customer.java:
 public class Customer {
        private Account acc; //line 1
        public void setAcc(Account acc) // line 2
         { this.acc=acc; }
         public Account getAcc() // line 3
         { return acc; }
And
  index.xhtml:
  <h:outputText value = "The Id is #(customer.acc.accId)"/>
Which two steps, when performed independently, enable the index.xhtml page to print the following text: The Id is 12345? (Choose two.)
A. Replace line 2 with: @Inject public void setAcc(Account acc)
B. Replace line 3 with: @Inject public Account getAcc()
C. Replace line 1 with: @Inject private Account acc;
D. Replace line 3 with: public @Inject Account getAcc()
E. Replace line 1 with: private @Inject Account acc;
F. Replace line 2 with: public void setAcc(@Inject Account acc)
Correct Answer: DF
Section: (none)
```

Explanation

Explanation/Reference:

QUESTION 14

```
Given:
```

How often does the submitted task run?

- A. need more details to determine
- B. once
- C. as many times as you like
- D. based on a schedule

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

QUESTION 15

Given:

```
// line 1
public class Mymapper {
        @PrePassivate
        public void setPinDrop() {}
        @PostActivate
       public void checkLocation() {}
What code needs to be added to line 1 for MyMapper bean instances to be correctly passivated?
A. @Stateless @PassivationCapable
B. @Stateless
C. @Stateful @PassivationCapable
D. @Stateful
Correct Answer: D
Section: (none)
Explanation
Explanation/Reference:
Reference: https://docs.oracle.com/javaee/6/tutorial/doc/giplj.html#gipln
QUESTION 16
Which URL represents an invalid approach to pass a parameter to a REST resource?
A. <base-url>/Employees?value=1
B. <base-url>/Employees&value=1
C. <base-url>/Employees/1
D. <base-url>/Employees; value=1
Correct Answer: D
Section: (none)
```

Explanation/Reference:

Explanation

QUESTION 17

Given:

If an exception is thrown inside the if block, what effect will it have on the transaction?

- A. The transaction will be committed.
- B. The transaction will be suspended.
- C. The transaction will be rolled back.

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

QUESTION 18

Given the code fragments:

```
@Stateless
 public class HRService {
        @PersistenceContext(unitName="HRApp-PU")
        private Employee findEmployee(String badgeId) {
              return entityManager.find(Employee.class, badgeId);
        public void updateEmployee(Employee emp) {
              //add code here
 @WebServlet(name="HR", urlPatterns={"/hr"})
 public class HRServlet extends HttpServlet {
    @EJB
    private HRService hrService;
    public void doGet(HttpServletRequest req, HttpServletResponse res)
                                   throws ServletException, IOException {
        String badgeId = req.getParameter("badge");
        String name = req.getParameter("name");
        Employee emp = hrService.findEmployee(badgeId);
        emp.setName(name);
        hrService.updateEmployee(emp);
What code should you add to the body of the updateEmployee method in order to save pending changes to the database?
A. entityManager.merge(emp);
B. Context. Ctx = new InitialContext();
   UserTransaction utx = (UserTransaction)ctx.lookup("java:comp/UserTransaction");
   utx.begin();
   entityManager.merge(emp);
   utx.commit();
```

```
C. entityManager.lock(emp);
   EntityManager.merge(emp);
D. entityManager.getTransaction().begin();
   entityManager.merge(emp);
   entityManager.getTransaction().commit();
```

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

QUESTION 19

When handling a JSF request, your application code decided to redirect the call to another URL by using HTTP redirect. Which action should you take to correctly complete the handling of the JSF life cycle?

- A. Set the immediate="true" attribute on the command button that was used to perform this call.
- B. Invoke the dispatch() method on the ExternalContext object.
- C. Invoke the setCurrentPhaseId(RENDER_RESPONSE) method on the FacesContext object.
- D. Invoke the responseComplete() method on the FacesContext object.

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

QUESTION 20

Given the code fragment:

When the context root is requested http://host:port/context, how does the container resolve this mapping?

- A. thirdServlet handles the request.
- B. firstServlet handles the request.
- C. The container throws an error at startup.
- D. secondServlet handles the request.

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

QUESTION 21

Given the code fragments:

```
//line 1
 public class ContactId implements Serializable {
    private String countryCode;
    private String phoneNumber;
    // remaining implementation
 @Entity
 //line 2
 public class Contact implements Serializable {
    @NotNull
    ØΙđ
    protected String countryCode;
    @NotNull
    @Id
    protected String phoneNumber;
   // remaining implementation
Which action completes this composite primary key implementation?
A. Add @IdClass annotation at line 1.
B. Add @Embeddable annotation at line 1 and replace both @Id annotations with @EmbeddedId annotations.
C. Add @IdClass(ContactId.class) annotation at line 2.
D. Add @Embeddable annotation at line 1 and @EmbeddedId (ContactId.class) at line 2.
Correct Answer: D
Section: (none)
Explanation
Explanation/Reference:
```

QUESTION 22

```
Given the code fragment:
  // line 1
  public class DataConverter
         implements AttributeConverter<LocalDate, Date> {
     //implementation
  @Entity
  // line 2
  public class Customer {
         // line 3
         private localDate birthday;
          //remaining implementation
How can you apply DateConverter to the birthday field?
A. by adding @Convert(to=Date.class) at line 3
B. by invoking the setConverter(DateConverter.class) method on the EntityManager object
C. by adding @Converter(autoApply=true) at line 1
D. by adding @Convert((DateConverter.class)) at line 2
Correct Answer: A
Section: (none)
Explanation
Explanation/Reference:
QUESTION 23
Which class do you use to handle an incoming JSON Message as a stream?
```

A. JsonReader

B. JsonObjectBuilder

- C. JsonParser
- D. JsonObject

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

Reference: https://docs.oracle.com/javaee/7/tutorial/jsonp002.htm

QUESTION 24

Which two approaches would result in the current date being added to the output of a JSP? (Choose two.)

- A. <%= out.printIn(new java.util.Date()) %>
- B. <% out.printIn(new java.util.Date()); %>
- C. <%= new java.util.Date() %>
- D. <% System.out.printIn(new java.util.Date()); %>

Correct Answer: AC Section: (none) Explanation

Explanation/Reference:

Reference: http://www.ntu.edu.sg/home/ehchua/programming/java/javaserverpages.html

QUESTION 25

Given the code fragment:

How are transactions managed?

- A. through a single shared transaction across the connection factory
- B. through a separate transaction per JMS Consumer
- C. through a single transaction for the entire JMS Topic
- D. through a single shared transaction in the JMS Context

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

QUESTION 26

You need to exchange large binary messages using chunks in a WebSocket application. Identify two ways in which you can receive partial messages. (Choose two.)

- A. Define an @OnMessage method with a single MimePart parameter.
- B. Use a ChunkListener interface implementation.
- $\pmb{C.\ Use\ a\ \texttt{MessageHandler.Partial}} < \texttt{ByteBuffer} > \pmb{interface\ implementation.}$
- D. Define an @OnMessage method with byte [] as the first parameter and a boolean as the second parameter.

Correct Answer: CD

Section: (none) Explanation

Explanation/Reference:

Reference: https://abhirockzz.gitbooks.io/java-websocket-api-handbook/content/Receiving%20Messages.html

QUESTION 27

Given:

```
URI uri = new URI("ws://www.example.com/api/employee");
WebSocketContainer container = ContainerProvider.getWebSocketContainer();
Session session = container.connectToServer(new SocketHandler(), uri);
RemoteEndpoint.Async remote = session.getAsyncRemote();
Employee employee = new Employee("Nancy Taube");
employee.setStatus(Status.FULLTIME);
// send employee object
session.close(new CloseReason(CloseReason.CloseCodes.NORMAL_CLOSURE, "Goodbye");
```

Which client-side Java method will send the employee object to the WebSocket Server Endpoint?

```
A. session.post(employee);
B. container.send(employee);
C. session.send(employee);
D. remote.sendObject(employee);
```

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

QUESTION 28

You are working with JMS publish-subscribe operations.

What happens when a producer publishes a message to a topic for which a durable subscription exists but there are no subscribers available?

- A. The publisher waits for a subscriber, who then consumes it. However, the publisher will time out if no consumer arrives within the given timeout period.
- B. The publisher sends the message. However, it is never consumed because there wasn't anything listening when it arrived, regardless of the message timeout length.
- C. The publisher successfully sends a message, which will be consumed later, once there is a subscriber, assuming the message hasn't timed out.
- D. The message publisher is immediately notified about the lack of subscribers and can decide for itself if, and when, to resend.

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

Reference: https://www.ibm.com/support/knowledgecenter/en/SSAW57_8.5.5/com.ibm.websphere.nd.multiplatform.doc/ae/tjn0012_.html

QUESTION 29

Which type allows you to share servlet attributes across your entire web application?

- A. ServletContext
- B. HttpSession
- C. ServletRequest
- D. ServletConfig

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

Reference: https://stackoverflow.com/questions/123657/how-can-i-share-a-variable-or-object-between-two-or-more-servlets

QUESTION 30

Which annotation allows a request to be executed with another Principal's identity?

- A. It is not possible to execute a request with another Principal's identity.
- B. @UseIdentity
- C. @RolesAllowed
- D. @Runs

Correct Answer: C Section: (none)

Explanation

Explanation/Reference:

Reference: https://docs.oracle.com/cd/E19798-01/821-1841/6nmg2cpig/index.html

QUESTION 31

Which statement is true about the WS-Security standard?

- A. It is a Java EE standard for protecting SOAP services.
- B. It relies on HTTP security mechanism to protect SOAP messages in transmit.
- C. It provides message-level security.
- D. It defines protocol-specific ways of protecting SOAP messages.

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

Reference: https://docs.oracle.com/cd/E19226-01/820-7627/gjiou/index.html

QUESTION 32

Which two statements are true about the relationship between JavaServer Pages (JSP) and servlets? (Choose two.)

- A. A JSP page must extend the HTTPServlet class to behave like a servlet.
- B. A JSP page has access to the same information, objects, and a context as a servlet.
- C. A JSP page is interpreted by JSPServlet.
- D. A JSP page must be written as either an XML file or a JSP file before it is turned into a servlet.

Correct Answer: AD Section: (none) Explanation

Explanation/Reference:

QUESTION 33

Given:

```
@Stateless
1:
2:
      public class AlarmManager {
3:
              @Resource
             private TimerService timerService;
4:
             public void createAlarm(Date alarmDate) {
5:
                     Alarm myAlarm = new Alarm();
6:
                    TimerConfig config = new TimerConfig();
7:
                    config.setInfo(myAlarm.getId());
8:
9:
10:
              @Timeout
11:
12:
             public void handleTimeout(Timer myTimer) {
                    int alarmId = {int)myTimer.hetInfo();
13:
                    show AlarmMessage(alarmId);
14:
15:
16:
```

You are creating an Alarm management system. When you create a new alarm, you want it to create an alert that is triggered once at the specified time.

Which method should you call on Line 9 to create the timer?

```
A. timerService.createCalendarTimer(alarmDate, config);
B. timerService.createSingleActionTimer(alarmDate, config);
C. timerService.createIntervalTimer(alarmDate, -1, config);
D. timerService.createTimer(alarmDate, -1, config);
```

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

Reference: https://docs.oracle.com/javaee/6/api/javax/ejb/TimerService.html

QUESTION 34

Given the code sample:

```
public interface GenericMessenger (
       public void handleMessage(Message msg) { }
And:
 @Default
 public class MsgHandler implements GenericMessenger (
        public void handleMessage(Message msg) { }
And:
  @ Alternative
 public class SmsHandler implements GenericMessenger (
        public void handleMessage(Message msg) { }
And the next fragment from beans.xml:
 <alternatives>
  <class>com.acme.SmsHandler</class>
 </alternatives>
And this injection point:
@Inject GenericMessenger messageHandler;
Which type would be injected at run time and referenced by the messageHandler variable?
A. SmsHandler
B. MsgHandler
C. None of the above. An exception would be thrown due to ambiguous bean references.
D. GenericMessenger
Correct Answer: D
Section: (none)
```

Explanation

Explanation/Reference:

QUESTION 35

On your JSF page, you have a form in which you have a command button:

A user submits the form by clicking the button, and no errors occur while processing the request. Which statement is true?

- A. The actNow() and ListenCarefully() methods are executed in parallel.
- B. The listenCarefully() method is executed followed by the actNow() method.
- C. The actNow() method controls the condition upon which the listenCarefully() method is allowed to be executed.
- D. The actNow method is executed followed by the listenCarefully() method.

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

QUESTION 36

Given the code fragment:

How can you get all property names of a JMS message in the JMS consumer onMessage operation?

```
A. String [] props = msg.getPropertyNames();
B. Enumeration props = msg.getPropertyNames();
C. Iterator props = msg.getPropertyNames();
D. List<String> props = msg.getProperties();

Correct Answer: A
Section: (none)
Explanation
```

Explanation/Reference:

QUESTION 37

Given a JSL document describing a batch job:

How do you initiate a batch job?

- A. Get the ${\tt JobExecution}$ object from ${\tt BatchRuntime}$ and call its ${\tt start}$ () method.
- B. Get the JobExecution object from BatchRuntime and set its status to JobStatus.INITIATED.
- C. Get the JobOperator object from BatchRuntime and call its start() method.
- D. Call BatchRunTime.initialize("ProductLoadJob");

Correct Answer: A Section: (none)

Explanation

Explanation/Reference:

QUESTION 38

Given the code fragment:

```
Cookie cookie = new Cookie ("key","value");
cookie.setMaxAge (-1);
```

How long does this cookie persist?

- A. until server shutdown
- B. until garbage collection in the servlet instance
- C. this request
- D. until browser shutdown

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

Reference: https://docs.oracle.com/javaee/6/api/javax/servlet/http/Cookie.html

QUESTION 39

When should a JPA entity implement the Serializable interface?

- A. when JPA entities are used in the EJB Full container
- B. when JPA entities are used outside of the EJB Lite container
- C. always, because JPA entities are required to implement the Serializable interface
- D. when JPA entities are used as parameters or return values by the remote EJB operations

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

Reference: https://stackoverflow.com/questions/2020904/when-and-why-jpa-entities-should-implement-serializable-interface

QUESTION 40

Which statement is true about JAX-RS resource implementation?

- A. The REST resource implementation class must extend the <code>javax.ws.rs.core.Application</code> class
- B. The REST resource class can be implemented as a stateful Enterprise JavaBean (EJB).
- C. The REST resource class can be implemented as a Plain Old Java Object (POJO).
- D. The REST resource implementation class must not be final.

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

Reference: https://docs.oracle.com/javaee/7/tutorial/jaxrs002.htm

QUESTION 41

How can you inject a target web service into an EJB?

- A. Define service as an injectable resource by using the <resource-ref> declaration.
- B. Use a HandlerChain.
- C. Use a java.xml.ws.WebServiceRef annotation.
- D. Use a java.xml.ws.WebServiceContext annotation.

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

QUESTION 42

How can you configure, in a portable way, the number of threads used by a ManagedExecutorService?

- A. programmatically, using a ManagedExecutorService
- B. using the ManagedExecutors utility class to define the execution properties
- C. This cannot be done because this configuration is dependent on the Java EE Product Provider.

D. configuring the thread pool info in the deployment descriptor

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

QUESTION 43

Given an HttpServletRequest request and an EJB SessionContext ctx.

Which is a valid way to retrieve the Principal invoking either behavior?

A. request.getCallerPrincipal() and ctx.getCallerPrincipal()

B. request.getUserPrincipal() and ctx.getUserPrincipal()

C. request.getCallerPrincipal() and ctx.getUserPrincipal()

D. request.getUserPrincipal() and ctx.getCallerPrincipal()

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

QUESTION 44

Given the set of navigation rules:

```
<navigation-rule>
  <from-view-id>list-widgets</from-view-id>
        <navigation-case>
          <from-outcome>add</from-outcome>
          <to-view-id>add-widget</to-view-id>
        </navigation-case>
 </navigation-rule>
 <navigation-rule>
        <from-view-id>*</from-view-id>
        <navigation-case>
               <from-outcome>home</from-outcome>
               <to-view-id>home</to-view-id>
        </navigation-case>
        <navigation-case>
                <from-outcome>logout</from-outcome>
                <to-view-id>goodbye</to-view-id>
 </navigation-rule>
 <navigation-rule>
        <from-view-id>home</from-view-id>
        <navigation-case>
                <from-outcome>dashboard</from-outcome>
                <to-view-id>dashboard</to-view-id>
        </navigation-case>
        <navigation-case>
                <from-outcome>list</from-outcome>
                <to-view-id>list-widgets</to-view-id>
        </navigation-case>
 </navigation-rule>
```

Which two define a valid flow of view IDs through the application? (Choose two.)

- A. home > goodbye > list-widgets
- B. dashboard > home > add-widget > list-widgets
- C. list-widgets > add-widget > home > dashboard > home
- D. home > list-widgets > add-widget > goodbye

Correct Answer: CD Section: (none) Explanation

Explanation/Reference:

QUESTION 45

How can a servlet indicate to the browser that cookie data should be sent over a secure connection?

- A. Call the getSecure(true) method on the cookie object.
- B. Encrypt the cookie data. The browser automatically sends encrypted data over a secure connection.
- C. Set the ENCRYPT header in the response.
- D. Configure SessionTrackingMode.SSL on the ServletContext object.

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

Reference: https://docs.oracle.com/javaee/6/api/?javax/servlet/http/Cookie.html

QUESTION 46

Which two features are provided by the JSTL Core library for a JSP? (Choose two.)

- A. iteration over a collection
- B. buffering of large result sets
- C. testing conditions
- D. message localization

Correct Answer: AD Section: (none) Explanation

Explanation/Reference:

Reference: https://www.journaldev.com/2090/jstl-tutorial-jstl-tags-example

QUESTION 47

Which of these can be a JPA entity?

- A. Enum type
- B. Abstract class
- C. Interface type
- D. Final class

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

QUESTION 48

You created two filters for your web application by using the <code>@WebFilter</code> annotation, one for authorization and the other for narrowing results by the provided search criteria. The authorization filter must be invoked first.

How can you specify this?

- A. setting the priority attribute of the <code>@WebFilter</code> annotation for each of the filters
- B. placing the filter mapping elements in the required order in the web.xml deployment descriptor
- C. placing @WebFilterMapping annotations in the required order
- D. specifying the filter precedence order by using the @Priority annotation

Correct Answer: A Section: (none) Explanation

Explanation/Reference:

QUESTION 49

You have been assigned to the Widget Editor portion of an application. It contains a Widget Editor Facelet page, the Widget class, and a simple WidgetEditor

backing bean, which contains a reference to the current Widget instance.

Given the code fragment from the Widget class:

```
public class Widget implements Serializable {
    private String name;
    private Date createdDate;
    private boolean approved;
}
```

Given the code fragment from the Facelet page:

The page displays Conversion Error when a user fills out all the form fields and clicks the Save button.

Which step do you perform to fix this problem?

A. Replace Line 1 with:

```
<h: inputText id="createDate"
value="#{widgetEditor.widget.createdDate}"
converter="java.util.Date"/>
```

B. Enclose the code fragment within the <f:view/> tag

- C. Insert <f:convertDateTime"/> at Line 1
- D. Replace Line 1 with:

```
<h:inputText id="createDate"
value="#{widgetEditor.widget.createdDate}">
<f:convertDateTime pattern="dd-mm-yyyy"/>
</h:inputText>
```

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

QUESTION 50

Identify two valid WebSocket message types for which you can register handlers. (Choose two.)

- A. Error Message
- B. Binary Message
- C. Pong Message
- D. Ping Message

Correct Answer: BC Section: (none) Explanation

Explanation/Reference:

Reference: https://docs.oracle.com/javaee/7/api/javax/websocket/Session.html

QUESTION 51

Given the following code:

What should you do at line 1 to enable this servlet receive request data without blocking?

- A. Use a Runnable instance with the start () method of AsyncContext.
- B. Define a ReadListener and assign it to the request input stream.
- C. Create a Callable class and delegate this operation to a ManagedExecutorService by using the dispatch method of AsyncContext.
- D. Define an AsyncListener and assign it to the AsyncContext object.

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

QUESTION 52

Which two elements CANNOT be injected by using an @Inject annotation? (Choose two.)

- A. static fields
- B. instance fields declared final
- C. concrete methods
- D. abstract methods

Correct Answer: BD Section: (none) Explanation

Explanation/Reference:

Reference: https://docs.oracle.com/javaee/6/api/javax/inject/Inject.html

QUESTION 53

Which code snippet indicates that the page you are designing is capable of handling errors?

```
A. <%@page errorPage="errorHandler.jsp"%>
B. <%= requestScope['javax.servlet.error'] !=null %>
C. <%@page isErrorPage="true"%>
D. <c:set var="errorHandler" value="true"/>
```

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

QUESTION 54

A Java EE application that uses an EJB container must communicate with a legacy system developed using non-Java technologies.

Which two Java EE technologies can be used in the integration tier of the application? (Choose two.)

A. JMS

B. JSF

C. JPA

D. JCA

Correct Answer: AB Section: (none) Explanation

Explanation/Reference:

QUESTION 55

Which statement is true about the relationship between HTTP and WebSockets?

A. A WebSocket connection is a bi-directional HTTP session with message-handling support.

- B. A WebSocket connection is initialized with an HTTP handshake.
- C. A WebSocket connection can be initialized by either client or server.
- D. A WebSocket connection uses HTTP protocol to exchange data with the browser.

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

QUESTION 56

Given:

Which annotation do you use on line 1 to ensure that clients immediately time out when attempting to concurrently invoke callMethod () while another client is already accessing the bean?

```
A. @AccessTimeout (value = 1, unit = TimeUnit.SECONDS)
```

- B. @AccessTimeout (null)
- C. @AccessTimeout (-1)
- D. @AccessTimeout (0)

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

Reference: http://tomee.apache.org/examples-trunk/access-timeout/

QUESTION 57

Which is a valid description of REST?

- A. REST provides the same architectural properties as SOAP.
- B. REST is a library that is part of JEE called JAX-RS.
- C. REST is the conventional way of interacting with information resources.
- D. REST is a Web Services standard supported by JEE and JAX-RS.

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

Reference: https://docs.oracle.com/javaee/6/tutorial/doc/giepu.html

QUESTION 58

Given the code fragment:

Assuming this bean is used only in the code fragment above, how long will the injected Bean instance be available?

- A. for the lifetime of the enterprise application
- B. for the lifetime of the request
- C. for the lifetime of the session
- D. for the lifetime of the Service object

Correct Answer: D

Section: (none) Explanation

Explanation/Reference:

QUESTION 59

You want to allow one set of roles to POST to a resource and another set of roles to GET it.

Which two configuration options should you use? (Choose two.)

- A. two separate @HttpMethodConstraints annotations and sets of roles
- B. a single @HttpMethodContstraint annotation and a map of method to roles
- C. two <web-resource-collection> with different <http-method> in the deployment descriptor
- D. a single <web-resource-collection> with two <auth-constraint> with different <http-method> in the deployment descriptor

Correct Answer: BD Section: (none) Explanation

Explanation/Reference:

QUESTION 60

Your class requires multiple resources defined, as shown in the following:

Which annotation do you use to group multiple @Resource declarations together for class-based injection, replacing <XXXX> in the code above?

- A. @Resources
- B. @Resource

- C. @ResourceGroup
- D. @ResourceCollection

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

QUESTION 61

Your web application requires logic to remember items that a user placed into a shopping cart.

Which two mechanisms should you use to associate that information with the user? (Choose two.)

- A. HttpServletResponse objects
- B. ServletContext objects
- C. HttpSession objects
- D. a database

Correct Answer: BC Section: (none) Explanation

Explanation/Reference:

QUESTION 62

Given:

```
@Path("Employees")
@Produces({MediaType.APPLICATION_JSON})
public class EmployeesResource {
        @Inject
        private EmployeeManager em;
        @GET
        public List<Employee> findAll() {
            return em.findAllEmployees();
        }
}
```

What will be the response to a HEAD request?

- A. The findAll() method will be called and the employee list will be returned.
- B. The findAll() method will be called and no employees will be returned.
- C. No method will be invoked and no error will be returned.
- D. No method will be invoked and a 404 error will be returned.

Correct Answer: C Section: (none) Explanation

Explanation/Reference:

QUESTION 63

You are building the User Preferences page of an application. A user can change values, such as his or her name, password, address, company, and so on. These values are sent to a CDI backing bean via AJAX when the user tabs out of each field. However, the values must be retained in the CDI bean and stored in the database only when the user clicks the Save button.

Which two scopes will allow your CDI bean to retain its state while the user is interacting with the User Preferences page? (Choose two.)

- A. Dependent
- B. View
- C. Session
- D. Request

E. Application

Correct Answer: CD Section: (none) Explanation

Explanation/Reference:

QUESTION 64

A Persistence application locks entity x with a LockModeType.PESSIMISTIC_READ lock type. Which statement is true?

- A. LockModeType.PESSIMISTIC_READ is the synonym of LockModeType.READ
- B. This operation will force serialization among transactions attempting to read the entity data.
- C. This operation will result in a TransactionRolledbackException if the lock cannot be obtained.
- D. If the application updates the entity later, and the changes are flushed to the database, the lock will be converted to an exclusive look.

Correct Answer: B Section: (none) Explanation

Explanation/Reference:

Reference: https://docs.oracle.com/javaee/7/api/javax/persistence/LockModeType.html

QUESTION 65

Which statement is true about Java methods that are exposed as Web Service operations by using JAX-WS API?

- A. The @WebResult annotation must exist.
- B. Method parameters and return types must be JAXB compatible.
- C. Method parameters must be declared by using ${\tt @WebParam.}$
- D. The @WebMethod annotation must exist.

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

QUESTION 66

```
Given the code fragment:
```

```
protected void service(HttpServletRequest req, HttpServletResponse res)
                     throws ServletException, IOException {
       PrintWriter out = res.getWriter();
       out.print("Service() method called.");
protected void doGet(HttpServletRequest req, HttpServletResponse res)
                     throws ServletException, IOException {
       PrintWriter out = res.getWriter();
       out.print("Get() method called.");
```

What output will be returned when this servlet is called a GET request?

- A. Service() method called.
- B. Service() method called. Get() method called.
- C. An HTTP error
- D. GET() method called.

Correct Answer: A Section: (none) **Explanation**

Explanation/Reference:

QUESTION 67

Give the code fragment:

```
1: @Stateless
2:
3: public class Warehouse {
       public void sendConfirmation(String msg) { }
4:
5:
       public String reverve(Product pro) { }
6: }
7:
And the code fragment:
 8: @Stateless
 9:
 10: public class Shop {
 11:
       @EJB private Warehouse war;
 12:
       public void purchase(Product pro) {
 13:
               String confirmationCode = war.reserve(pro);
 14:
               war.sendConfirmation(confirmationCode);
 15:
 16:
        }
 17: }
The sendConfirmation() and reserve() methods should be executed in the same transactional context.
Which transaction attributes do you ensure this?
A. Add annotations:
   @TransactionAttribute (TransactionAttributeType.REQUIRES_NEW) at line 2,
   @Transactional at line 9 and
   @TransactionAttribute ((TransactionAttributeType.MANDATORY) at line 12
B. No additional annotations are required.
C. Add annotations:
   @TransactionAttribute (TransactionAttributeType.REQUIRED) at line 2,
   @Transactional at line 9 and
```

@TransactionAttribute ((TransactionAttributeType.REQUIRES_NEW) at line 12

D. Add annotations:

@TransactionAttribute (TransactionAttributeType.MANDATORY) at line 2,
@Transactional at line 9 and
@TransactionAttribute ((TransactionAttributeType.REQUIRES_NEW) at line 12

Correct Answer: D Section: (none) Explanation

Explanation/Reference:

QUESTION 68

Given the JPQL code fragment:

Select pub.title, pub.author, pub.pages FROM Publisher pub

Which two clauses do you add to this JPQL query to retrieve only those books with between 500 and 750 total pages? (Choose two.)

- A. WHERE MIN(pages) >= 500 AND MAX(pages) <= 750
- B. WHERE pub.pages <= 500 OR pub.pages >= 750
- C. WHERE pub.pages BETWEEN 500 AND 750
- D. WHERE pub.pages <= 500 AND pub.pages >=750

Correct Answer: AB Section: (none) Explanation

Explanation/Reference:

QUESTION 69

Given the following class definition with numbered lines:

```
@Alternative
public class ShoppingCartMock implements ShoppingCart {
          @Override
          public void checkout() {...}
}
```

How do you specify to use this mock CDI bean implementation instead of the regular implementation class?

- A. Use the alternatives element in the beans.xml file and specify the class name in the class element within it.
- B. Start up the server with the optional -alternative command-line option, specifying any alternative class names in a comma-separated list.
- C. Reorder the implementation names in the beans.xml file such that the desired alternative is listed earlier.
- D. Delete the regular implementation class from the WAR.

Correct Answer: B Section: (none) Explanation

Explanation/Reference: