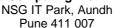


CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING

Advanced Computing Training School



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J2EE - Enterprise Java (60 Minutes)

- 1. The HttpServlet class
 - 1. Extends Servlet class
 - 2. Extends GenericServlet class
 - 3. Implements JavaServlet interface
 - 4. Implements GenericServlet interface
- 2. When a remote object is referenced in rmi, the client gets
 - A local copy of that object
 - 2. A reference to remote object by means of stub
 - A skeleton
 - All of above
- 3. What interface must all interfaces for remote services extend?
 - 1. java.rmi.RemoteService
 - 2. java.rmi.Remotable
 - 3. java.rmi.server.Remote
 - 4. java.rmi.Remote
- 4. When defining a remote interface, what exception is typically thrown as part of each method signature?
 - 1. IOException
 - 2. RemoteException
 - 3. RemoteCollisionException
 - 4. RemoteControlException
- 5. The client communicates with EJB-bean using
 - 1. EJBObject
 - 2. EJBHome
 - 3. EJB-Bean-Object
 - 4. EJB-Bean-Implementation Object
- 6. Why might you define a method as native?
 - To get to access hardware that Java does not know about
 - To define a new data type such as an unsigned integer
 - 3. To write optimized code for performance in a language such as C/C++
 - 4. To overcome the limitation of the private scope of a method
- 7. Which of the following statement is true?
 - HttpServletResponse provides a method to send a temporary redirect response to the client.
 - 2. HttpSession provides a method to unbind all the objects bounded to it, without ending the session.
 - 3. HttpServletContext provides a method to return a RequestDispatcher object for a resource located in a particular path.
 - 4. None of the above
- 8. Name the class that includes the getSession method that is used to get the HttpSession object.
 - 1. HttpServletRequest
 - 2. HttpServletResponse
 - 3. SessionContext
 - 4. SessionConfig
- 9. Which of these is true.
 - 1. The default value of isThreadSafe attribute of page directive is true.
 - 2. If isThreadSafe attribute of page directive is set to true, then JSP container dispatches request for the page sequentially.

- 3. Setting isThreadSage attribute to true for JSP pages, can lead to poor performance.
- 4. None of the above
- 10. Which of these is true about deployment descriptors. Select the one correct answer.
 - The order of elements in deployment descriptor is important. The elements must follow a specific order.
 - 2. The elements of deployment descriptor are case insensitive.
 - 3. The servlet-mapping element, if defined, must be included within the servlet element.
 - 4. The web-app element must include the servlet element.
- 11. Which of the following combination is a part of J2EE technology?
 - 1. JSP, JFC, Servlets
 - 2. JNDI, JMS, JTA
 - 3. CORBA, JDBC, Swings
 - 4. JMX, JAXR, JFC
- 12. Type 4 database driver, also known as thin driver
 - 1. True
 - 2. False
- 13. Which of the following is not a JSP scripting element
 - 1. Declarations
 - 2. Scriptlets
 - 3. Expressions
 - 4. HTML Tags
- Use of constructor in Servlets instead of init() method will
 - 1. Leave no effect.
 - 2. Can be done, but in older versions it will not pass any argument.
 - 3. Can not be done.
 - 4. ServletConfig will be available in both the cases.
- 15. Is it possible to stop the execution of a method before completion in a Session Bean because
 - It is not allowed to access threads inside an EJB without writing code inside the Session Bean.
 - 2. It is allowed as we can kill threads any time.
 - Session bean maintains the session so we cannot terminate its execution before the session gets terminated.
 - 4. We can use exit() method to achieve this.
- 16. The EJB container implements the EJBHome and EJBObject classes. For every request from a unique client
 - 1. container create a separate instance of the generated EJBHome and EJBObject classes
 - 2. container uses same generated ÉJBHome and separate EJBObject classes
 - 3. container create a separate instance of the EJBHome and uses same EJBObject classes
 - 4. container uses same instance of the EJBHome and uses same EJBObject classes
- 17. Which one of the following is the correct sequence of opening a result set.
 - Create Statement, create connection, open result set.

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- 2. Create Connection, create statement, open result set
- Load driver, open connection, create 3. statement, open result set.
- 4. All of the above.
- 18. Which of the following JSP comment will not go to the browser?
 - <!- some comment -> 1.
 - 2. <!- - 2 + 2= <%= 2 + 2 %> - ->
 - 3. <%- - some comment - -%>
 - None of the above 4.
- Which interface defines the following method in the 19. servlet API?

public void service (ServletRequest request, ServletResponse response)

- 1. javax.servlet.Servlet
- 2. javax.servlet.GenericServlet
- javax.servlet.HttpServlet 3.
- javax.servlet.http.HttpSession
- Read the following code segment 20.

<form

action="/scwcd/servlet/com.baboon.scwcd.servl etmodel.AnimalServlet" method="POST">

<select name="animals" size="3" multiple> <option value="TIGER">Tiger</option> <option value="ELEPHANT"> Elephant </option>

<option value="LION">Lion</option> </select>

<input type="submit" value="Search"> </form>

- 1. public class AnimalServlet extends HttpServlet {
- protected void doPost(HttpServletRequest req, HttpServletResponse resp)
- throws ServletException, IOException { 3.
- 4. // insert code here
- 5.
- 6. }

What statement do you need to insert at line 4 of the AnimalServlet to pick up all selected animals in the form?

- String animals= req.getParameter("animals"); 1.
- 2. String[] animals = req.getParameterValues("animals");
- String[] animals = 3. req.getParameterNames("animals");
- None of the above 4.
- Which statements about stateful and stateless 21. session beans is true?
 - Only stateful session beans support 1. transactions.
 - 2. Only stateful session beans can be passivated.
 - 3. Only stateful session beans have a 'setSessionContext' method.
 - Both stateful and stateless session beans can 4. support overloaded 'ejbCreate' methods.
- 22. Which three are true about transactions in EJB?
 - EJB 2.0 supports nested transactions. 1.
 - EJB 2.0 allows you to specify isolation levels. 2.
 - Message-driven beans must not use bean-3. managed transaction demarcation.
 - 4. Entity beans must not use bean-managed transaction demarcation.

- 23. Which will survive an EJB server crash?
 - Stateful session bean instances 1.
 - 2. Stateless session bean instances
 - 3. Message-driven bean instances
 - 4. An entity bean's primary key
- 24. Which is directly invoked by the client?
 - 1. eibPassivate
 - 2. **Business methods**
 - 3. setSessionContext
 - 4. newInstance
- 25. Java-Beans are components that can run as standalone application.
 - True 1.
 - 2. False
- 26. java.sql.Connection is an abstract class
 - True 1.
 - False 2.
- 27. Which of the following is not true?
 - The Serializable interface is used to identify objects that may be written to an output stream.
 - 2. The Externalizable interface is implemented by classes that control the way in which their objects are serialized.
 - 3. The Serializable interface extends the Externalizable interface.
 - 4. The Externalizable interface extends the Serializable interface.
- Consider the following piece of code: 28. String query = "SELECT COF_NAME, PRICE FROM COFFEES"; ResultSet rs = stmt.executeQuery(query); String s = rs.getString("COF NAME");
 - It will result in compile time error.
 - 2. There is nothing wrong in the code and will work perfectly alright
 - 3. It will result in run-time error
 - None of the above 4.
- 29. DriverManager.getConnection(...) API throws following exception:
 - ClassNotFoundException 1.
 - 2. **SQLException**
 - SalConnectionException 3.
 - None of the above 4.
- Which Type driver can you use in a three-tier 30. architecture and if the Web server and the DBMS are running on the same machine?
 - Type 1 1.
 - 2. Type 2
 - 3. Type 3
 - All of the above 4.
- 31. A class that receives a notification if an attribute is added, removed or replaced from a session will implement which interface?
 - HttpSessionBindingListener 1.
 - 2. HttpSessionListener
 - 3. HttpSessionActivationListener
 - HttpSessionAttributeListener
- Which of the following are correct JSP useBean 32. declarations?
 - <isp:useBean id="softDrink" beanName="Drink.ser" class="com.baboon.interface.Drink" />
 - 2. <jsp:useBean beanName="instructor" class="com.baboon.users.Instructor" />



- <jsp:useBean id="card" class="com.baboon.cardgame.Card" />
- 4. None of the above
- 33. Which of the following actions will cause a session to be expunged in a web application?
 - 1. Navigating to a different web site or web application
 - 2. Closing the web browser.
 - 3. The client does not send a request to the web application for a length of time that exceeds the session timeout value of the associated session object in the application.
 - 4. All of the above.
- 34. If a JSP page overrides the jsplnit() method using a declaration JSP tag, which phase of the JSP page lifecycle generates the overridden method in the servlet?
 - 1. page translation
 - 2. JSP page compilation
 - 3. call jsplnit()
 - 4. call _jspService()
- 35. Which of the following statements regarding the sendError response method are true?
 - 1. sendError accepts java.lang.Throwable as an argument.
 - 2. sendError has the side effect of committing the response.
 - 3. sendError is only used to set the return status code when there is no error
 - 4. sendError throws an java.lang.InvalidStateException if the response has already been committed.
- 36. How is a servlet declared to use the single thread model?
 - The servlet declares the service method as synchronized.
 - 2. In the deployment descriptor.
 - 3. Nothing is required, by default a servlet uses the single thread model.
 - 4. The servlet implements the interface SingleThreadModel
- 37. Which of the following attributes are mandatory within the <i sp:setProperty> tag?
 - 1. Name
 - 2. Value
 - 3. Id
 - 4. Property
- 38. You have created a Listener called AccountApplicationListener that receives events when the context of the web-application "account" is created or destroyed. How would you define this in your deployment descriptor?
 - com.cdac.acts.AccountApplicationListener

 - <lass>com.cdac.acts.AccountApplicationListe ner
 - 4. <web-app name="account"> listenerclass>com.cdac.acts.AccountApplicationListe ner</listener-class> </web-app>

- 39. Which of the following child elements of the root element is not valid in the deployment descriptor?
 - 1. <servlet-mapping>
 - 2. <mime-mapping>
 - 3. <icon>
 - 4. <context-mapping>
- 40. Which interface of the Servlet API's defines methods to extract form parameters from the HTTP request?
 - 1. HttpServletRequest
 - 2. ServletRequest
 - 3. Servlet
 - 4. HttpServletResponse
- 41. If you have a chat server using UDP, which class will you use on server side?
 - 1. ServerSocket
 - 2. Socket
 - 3. DatagramSocket
 - 4. DatagramServerSocket
- 42. Which APIs is provided by the container?
 - 1. JMX
 - 2. JSP
 - 3. JAXP
 - JDO
- 43. Which of the following files is the correct name and location of deployment descriptor of a web application. Assume that the web application is rooted at \doc-root. Select the one correct answer
 - 1. \doc-root\dd.xml
 - \doc-root\web.xml
 - 3. \doc-root\WEB-INF\web.xml
 - 4. \doc-root\WEB_INF\dd.xml
- 44. Which of these is true about deployment descriptors. Select the one correct answer.
 - The order of elements in deployment descriptor is important. The elements must follow a specific order.
 - 2. The elements of deployment descriptor are case insensitive.
 - 3. The servlet-mapping element, if defined, must be included within the servlet element.
 - 4. The web-app element must include the servlet element.
- 45. Which statements about stateful and stateless session beans is true?
 - Only stateful session beans support transactions.
 - 2. Only stateful session beans can be passivated.
 - 3. Only stateful session beans have a 'setSessionContext' method.
 - 4. Both stateful and stateless session beans can support overloaded 'ejbCreate' methods.
- 46. Which of the following statements regarding the action JSP tag is false?
 - 1. Used to declare a JavaBean instance in a JSP page.
 - 2. Used to generate HTML code to embed an applet on a web page.
 - 3. User-defined actions can be created.
 - 4. Provides translation-time instructions to the JSP engine.

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- 47. Which statement can be inserted in a Servlet to forward the request to http://www.cdac.in, outside the current domain?
 - resp.encodeRedirectURL("http://www.cdac.in");
 - resp.sendRedirect(resp.encodeRedirectURL(" http://www.cdac.in"));
 - resp.sendRedirect (HttpServletResponse.SC_MOVED_PERMAN ENTLY, " http://www.cdac.in ");
 - getServletContext().getRequestDispatcher("htt p://www.cdac.in").forward(req,resp);
- 48. Which three are true about transactions in EJB?
 - EJB 2.0 supports nested transactions.
 - 2. EJB 2.0 allows you to specify isolation levels.
 - 3. Message-driven beans must not use beanmanaged transaction demarcation.
 - 4. Entity beans must not use bean-managed transaction demarcation.
- 49. What gets printed when the following JSP code is invoked in a browser. Select the one correct answer. <%= if(Math.random() < 0.5) %> hello
 - <%= } else { %> hi
 - <%= } %>
 - 1. The browser will print either hello or hi based upon the return value of random.
 - 2. The string hello will always get printed.
 - 3. The string hi will always get printed.
 - 4. The JSP file will not compile.
- 50. Which of the following represents a correct syntax for usebean.
 - 1. <jsp:usebean id="fruit scope ="page"/>
 - 2. <jsp:usebean id="fruit type ="String"/>
 - <jsp:usebean id="fruit class="Fruit" beanName="Fruit"/>
 - 4. None of the above