



Exam : 000-286

Title : Application Development with IBM
WebSphere Studio, V5.0

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QUESTION 1:

A developer tests a file in a Web Project and finds that it is run on the wrong server. What is the BEST way to ensure the project's resources are subsequently run on the correct server?

- A. Ensure the J2EE level of the project matches that of the intended server.
- B. Change the Server Preference setting in the Web project's properties to the intended server.
- C. Ensure the Server Project of the intended server is selected in the Project Reference section of the Web Project's properties.
- D. Associate the Web Project with the intended server by selecting Switch Configuration in the Server Configuration View.

Answer: B

QUESTION 2:

After developing a new web application in WebSphere Studio, what are valid ways to test the application?

- A. Create a new server instance and configuration, start the server instance, and double-click on the first test file in the Server perspective.
- B. Start the default server, and double-click on the first test file in the Server perspective.
- C. Start the WebSphere v5.0 Test Environment, start the Servlet Engine, and right-click on the first test file and select Run on Server.
- D. Start the WebSphere v5.0 Test Environment, right-click on the first test file, and select Run on Server.
- E. Right-click on the first test file and select Run on Server, allowing WebSphere Studio to create the WebSphere v5.0 Test Environment.

Answer: D, E

QUESTION 3:

Which of the following are TRUE about the relationship among project, servers, and server configurations?

- A. A single project can be associated with multiple server configurations.
- B. A single server configuration can be associated with multiple projects.
- C. A single server can implement multiple server configurations.
- D. A single server configuration can only be associated with one project.

Answer: A, B

QUESTION 4:

Which of the following might be copied using the remote file transfer mechanism defined for the server when an application is published to a remote server?

- A. The Server Configuration.
- B. The Agent Controller Configuration.
- C. The contents of the application projects.
- D. The contents of the Server Project.

Answer: A, C

QUESTION 5:

A developer wishes to debug a web application on an instance of WebSphere Application Server running on a remote machine. Which configuration tasks **MUST** be completed in order for this debugging to take place? Select all that apply.

- A. A web server must be installed on the remote machine.
- B. A WebSphere Remote Server configuration must be created inside WebSphere Studio on the developer's machine.
- C. An FTP server must be installed on the remote machine.
- D. IBM Agent Controller must be installed on the remote machine.
- E. IBM Agent Controller must be installed on the developer's machine.

Answer: A, B

QUESTION 6:

Which action will cause the debugger to completely execute the currently selected line and suspend execution at the following line?

- A. Step Into
- B. Step Through
- C. Step Debug
- D. Step Over
- E. Step Next

Answer: D

QUESTION 7:

The Activity Log view can be used to analyze WebSphere Application Server activity log files. Which tasks need to be completed to make **BEST** use of the feature?

- A. Import the activity log for WebSphere Application Server.
- B. Start the WebSphere Application Server instance in profiling mode.
- C. Install and configure IBM Agent Controller on the server machine.
- D. Import a symptom database.
- E. Convert the server's activity.log file to XML format.

Answer: A, D

QUESTION 8:

Web application execution will halt at an enabled breakpoint in which of the following situations?

- A. The breakpoint was set in a .class file.
- B. The server was started in debug mode.
- C. The web application was compiled with the debug option.
- D. The Java source files are accessible by the debugger.

Answer: B

QUESTION 9:

During a local debugging session, a developer makes changes to application code and the configuration of the WebSphere Test Environment server. Assuming reloading is enabled, which of the following will require a restart of the WebSphere Test Environment server? Select all that apply.

- A. Modifying the servlet to use a different DataSource object.
- B. Modifying the JNDI name of a DataSource object.
- C. Modifying the usebean tag in a JSP to use a different Java class.
- D. Enabling URL rewriting for HttpSession management.
- E. Making a change to the business logic in a dependent class.

Answer: B, D

QUESTION 10:

While stepping through some code, a developer wishes to examine the values of various expressions. In order to accomplish this, the developer can select the expression and:

- A. Right-click and select Inspect.
- B. Drag and drop the expression to the Expressions view.
- C. Right-click and select Display.
- D. Hover over the expression to view the value as a tooltip.
- E. Right-click and select Evaluate.

Answer: A, C

QUESTION 11:

While debugging a JSP, which of the following statements is TRUE about variable and stack information?

- A. No variable or stack trace information is available.
- B. Variable and stack trace information corresponds to the generated HTML stream.
- C. Variable and stack trace information corresponds to generated Java Servlet.
- D. Variable and stack trace information corresponds to the JSP source.

Answer: D

QUESTION 12:

After editing and saving a project resource file a few times, a developer decides to use a previous revision. Which is the MOST effective means of obtaining the desired code base?

- A. Load the last version of the file from the repository into the workspace.
- B. Use the Replace With Local History feature and select the appropriate revision.
- C. Pull the appropriate code from the .history file maintained by Site Developer.
- D. Import the file from the backup directory in the file system.

Answer: B

QUESTION 13:

A developer working on multiple applications has decided to create each application in its own workspace. How can the developer choose which one of the workspaces to load into WebSphere Studio at startup?

- A. Use the options under the File menu to load the desired workspace.
- B. Add the "-data [foldername]" flag to the command line or shortcut used to start WebSphere Studio.
- C. Use the Version Control Manager to load the required versions into the workspace.
- D. Select the desired workspace from the dialog on start-up.

Answer: B, D

QUESTION 14:

A new developer joins a team which uses multiple version control management systems for development. The BEST way to create the necessary projects in the new

developer's workspace which are synchronized with the team's repository is:

- A. Export the projects from an existing developer's machine to a ZIP file, and import the ZIP file on the new developer's machine.
- B. Use the Repository Exploring View to select the projects in the version control management systems, and import them into the new developer's workspace.
- C. Create the projects in the new developer's workspace, and synchronize their contents with the version control management systems.
- D. Export a Project Set from an existing developer's workspace, and import the Project Set into the new developer's workspace.

Answer: C

QUESTION 15:

A developer needs to create a custom perspective in order to minimize navigation between several standard perspectives during development. Which of the following tasks might the developer perform to create the customer perspective?

- A. Click the 'X' of a pane to remove the current view from the perspective.
- B. Select Window -> Reset Perspective to save changes.
- C. Select Window -> Open Perspective to create a new empty perspective.
- D. Select Window -> Save Perspective As to supply a new name to the customized perspective.
- E. Select Window -> Show View to add new views to the perspective.

Answer: A, D, E

QUESTION 16:

A developer needs to send a J2EE application, which consists of several Web Projects, to another developer. What is the BEST way to accomplish this task?

- A. Use File System Export utility and export the Web Projects to the other developer's workspace.
- B. Use the EAR file Export utility to export the Enterprise Application and send the EAR file to the other developer.
- C. Use the WAR file Export utility to export the Web Projects and send the WAR files to the other developer.
- D. Use the Web Export utility to export the Web project to the other developer's WebSphere v5.0 Test Environment.

Answer: B

QUESTION 17:

While creating an Enterprise Application Project, a developer can also choose to create which other J2EE components?

- A. DataSource Project
- B. Web Project
- C. Application Client Project
- D. Server Project
- E. Java Project

Answer: B, C

QUESTION 18:

A web application with extensive connectivity to back-end relation data is performing very poorly. Which of the following application architecture changes will MOST likely lead to the best throughput improvement?

- A. Use DataSource for all database access.
- B. Use object-relational mapping frameworks instead of JDBC code.
- C. Use more distinct servlets to control access to relational data.
- D. Use fewer distinct servlets to control access to relational data.

Answer: A

QUESTION 19:

A developer is writing a web application which involves calculating insurance premiums from data contained in several different relational databases. Which is the BEST place to put this kind of business logic?

- A. In a utility method within the Servlet which receives the initial HTTP request from the user.
- B. In a scriptlet within the JSP which returns the HTTP response back to the user.
- C. In a method of a class which implements HttpJspPage and is specified in an "extends" page directive in the JSP.
- D. In a method within a dependent class, contained in a module packaged with the web components.

Answer: D

QUESTION 20:

During the stress testing and performance analysis of a web application running on a single server it is found that the JVM is spending around 25% of its time in garbage collection. Which of the following actions are MOST likely to reduce the proportion of time spent in garbage collection? Select all that apply.

- A. Add more physical memory to the server machine and increase the JVM maximum heap size.

- B. Modify the web application code to reduce the number of objects created, using caches and pools.
- C. Decrease the maximum collection heap size to force more frequent, shorter garbage collection calls.
- D. Use the garbage collection scheduler to perform planned, frequent garbage collection.
- E. Increase the stack size to allow more object to be created before garbage collection is needed.

Answer: B, C

QUESTION 21:

The Command Design Pattern is often used in web application development. Which of the following BEST describes the reasons for using this pattern?

- A. Network traffic is reduces if business logic is not physically located on the same machine as the web container.
- B. The number of database operations is reduced by using Commands to invoke stored procedures.
- C. The user can control operations on the server by creating a Command on the browser and sending it with an HTTP request.
- D. The amount of coupling between the layers in the application is reduced, since the business logic interface is abstracted.
- E. Processing on the serve side can be delegated to programs running in separate processes.

Answer: B, D

QUESTION 22:

The State Design Pattern is often used in web application. Which of the following BEST describes this pattern?

- A. A class is used to store information about what operations the user has already completed.
- B. A class ensures that persistent data are always consistent with in-memory copies of the data.
- C. Classes implementing a common interface provide different behavior dependent on the user's state.
- D. A class monitors the state of JDBC connections, ensuring that they are always kept alive.

Answer: C

QUESTION 23:

A developer has coded a JavaBean to contain the results of some business logic which forms part of a web application. A Servlet will create an instance of the bean and then pass it to a JSP to generate the dynamic content for the user. The bean will not be required after the JSP has returned its response to the client. Which is the BEST context (or scope) to use to pass the bean from the Servlet to the JSP?

- A. Application
- B. Page
- C. Session
- D. Request
- E. Response

Answer: D

QUESTION 24:

Defining module dependencies to a Web project will update:

- A. Java Build Path in Web project properties.
- B. Classpath in server instance configuration.
- C. Module definition in associated Enterprise Application Project.
- D. Runtime classpath in MANIFEST.MF.

Answer: C, D

QUESTION 25:

A Web Project is the only user of a JAR file located outside of WebSphere Studio. The developer defines this JAR file as an external JAR in the Web project build path. When the application is run during development, there are no errors. However, when the application is run on a test server, the following error message is returned: NoClassDefFoundError. To correct the problem, the developer should import the JAR file into:

- A. WebSphere Studio workbench as a Java Project.
- B. An associated Enterprise Application Project.
- C. The Web project's Web Content/WEB-INF/lib folder.
- D. The testing server folder.

Answer: C

QUESTION 26:

HTML Content Assist does NOT support a web developer in:

- A. Adding an attribute name-value pair within a start tag.
- B. Completing tag names, taking into account HTML grammar constraints.
- C. Ensuring that all HTML start tags have a corresponding end tag.
- D. Selecting from an enumerated list of attributes within a tag.
- E. Populating tag attribute values when a discrete set of options are possible.

Answer: B,C

QUESTION 27:

A developer changes the context root for a Web project on the project's Properties dialog. The project only used relative paths. What is the consequence of this change?

- A. The links in the project files must be edited, to change them from relative to absolute references.
- B. The links in the project files must be updated through the refactoring menu.
- C. The project can be deployed in a WAR without any changes to the files.
- D. The project can be deployed in a JAR without any changes to the files.

Answer: C

QUESTION 28:

Web Project TestWeb1 is currently associated with Enterprise Application project TestEAR1. A web developer would like to add TestWeb1 as a module to an Enterprise Application Project TestEAR2 also. This can be accomplished by editing the:

- A. application.xml for TestEAR2, using the application.xml editor's Source page.
- B. application.xml for TestEAR2, using the application.xml editor's Modules page.
- C. web.xml for TestWeb1, using the web.xml editor's General page.
- D. web.xml for TestWeb1, using the web.xml editor's Source page.

Answer: A, B

QUESTION 29:

What BEST describes the difference, if any, between exporting an EAR file of J2EE enterprise application and publishing it to a remote server?

- A. Exporting saves only the source files of the enterprise application to the local file system. Publishing packages and deploys the compiled Java code and other resources of the application to a server.
- B. Exporting saves the compressed EAR file to the target, while publishing expand the EAR file and deploys the content to a server.
- C. Exporting integrates one enterprise application project into another within the environment, and publishing deploys the application to a server.

Answer: C

QUESTION 30:

Which of the following statements are TRUE when using custom tag libraries?
Select all that apply.

- A. Custom tags are used in place of Java code in JSPs.
- B. Tags can be added to a page by using the JSP -> Insert Custom... menu option.
- C. Custom tags are used as an alternative to XML in JSPs.
- D. Struts does NOT include tag libraries, but the developer can extend other tags to provide Struts support.

Answer: A, B

QUESTION 31:

While working on a Web Application, a developer continues to make modifications and test the servlets in the application. The avoid restating the server in order for the changes to take affect, what can the developer do?

- A. In the web.xml file, set <load-on-startup> to true.
- B. In ibm-web-bond.xmi file, set reloadingEnabled to true.
- C. In the ibm-web-ext.xmi editor, make sure "Reloading enabled" is true.
- D. In the ibm-web-ext.xmi editor, make sure "File serving enabled" is true.

Answer: C

QUESTION 32:

JavaScript code can be previewed in the default editors of the following types of files EXCEPT:

- A. JavaScript
- B. JSP
- C. HTML
- D. Java

Answer: D

QUESTION 33:

Consider the following extract from a web.xml file:

```
<servlet> <servlet-name>Servlet1</servlet-name> <servlet-class>com.ibm.test.Servlet1</servlet-class> <load-on-startup>1</load-on-startup>
</servlet> <servlet> <servlet-name>Servlet2</servlet-name> <servlet-class>com.ibm.test.Servlet2</servlet-class>
<load-on-startup>2</load-on-startup> </servlet> <servlet> <servlet-name>Servlet3</servlet-name>
<servlet-class>com.ibm.test.Servlet3</servlet-class> </servlet> <servlet> <servlet-name>Servlet4</servlet-name>
<servlet-class>com.ibm.test.Servlet4</servlet-class> <load-on-startup>-1</load-on-startup> </servlet>
```

Which of the following sequences are valid possibilities for loading the Servlets?

- A. Servlet1, Servlet2, Servlet3, Servlet4

- B. Servlet1, Servlet2, Servlet4, Servlet3
- C. Servlet4, Servlet3, Servlet2, Servlet1
- D. Servlet3, Servlet2, Servlet1, Servlet4
- E. Servlet2, Servlet1, Servlet3, Servlet4

Answer: A, B

QUESTION 34:

A Web developer, who is using Page Designer, needs to ensure that all of the headings on all of the web pages have the same font. What is the BEST way to accomplish this?

- A. Manually change all of the headings.
- B. Use the Heading Editor and CSS Manager to set the font on all of the pages.
- C. Use the font dialog to set the common fonts for each individual page.
- D. Use a Cascading Style Sheet to set the font for the headings for the top level pages and let the change cascade to all other pages in the site.
- E. Use a Cascading Style Sheet to set the font for the headings and then apply the Cascading Style Sheet to each page.

Answer: E

QUESTION 35:

A Web Project is named MyCoWeb and uses the web context root "MyCoWeb". Which of the following are proper links from the JSP file MyCoWeb\Web Content\JSP\myJSP.jsp pointing to the image MyCoWeb\Web Content\images\myImg.gif?

- A. /images/myImg.gif
- B. Web Content/images/myImg.gif
- C. /MyCoWeb/images/myImg.gif
- D. /MyCoWeb/Web Content/images/myImg.gif
- E. ./images/myImg.gif

Answer: C, E

QUESTION 36:

The Struts framework provides functionality primarily to what layer of an application?

- A. Model
- B. View
- C. Controller

D. Data

Answer: C

QUESTION 37:

When editing the Properties dialog of a Java project, the purpose of setting the "Build output folder" field on the Source page of the Java Build Path section is to specify the:

- A. Default folder into which JAR files for that project will be exported.
- B. Default folder into which an entire Java project will be exported.
- C. Folder where the class files are placed when Java source code is compiled.
- D. Folder where resources specified in the build path are kept within the tool before deployment.

Answer: C

QUESTION 38:

Executing the Organize Imports command in the Java Editor does the following?

- A. Highlights import statements which contain deprecated classes.
- B. Organizes the imports in the file according to the import order preference.
- C. Displays a list of imports in a dialog and allows the developer to make a selection, in case of ambiguity.
- D. Changes the package name to the one specified in the import preference dialog.
- E. Displays a list of imports in the file which are not being used.

Answer: B, C

QUESTION 39:

What can the developer hide in the Outline View in the Java Perspective?

- A. Inherited members
- B. Superclass members
- C. Static members
- D. Fields
- E. Protected methods

Answer: C, D

QUESTION 40:

A Java application requires that 2 new classes, "ClassA" and "ClassB", be created

within a package called my Package. ClassA is as follows: package my Package; public class ClassA { } ClassB is created using the Create Class Wizard with the Enclosing Type property set to "myPackage.ClassA". What is the BEST example of the resulting code?

- A. package my package; import myPackage.ClassA; public class ClassB { }
- B. package my package; public class ClassB extends ClassA { }
- C. package my package; public class ClassA implements ClassB { }
- D. package my package; public class ClassA { protected class ClassB { }}
- E. package my package; public class ClassB extends ClassA { public ClassB () { super(); }}

Answer: D

QUESTION 41:

While examining a Class in the Hierarchy view, the list in the member pane may be filtered to hide:

- A. Inherited members
- B. Public members
- C. Static members
- D. Fields
- E. Instance variables

Answer: A, C, D

QUESTION 42:

The JRE_LIB classpath variable defines the archive associated with the runtime JAR file for the currently used JRE. This variable can be set by:

- A. Editing the JRE_LIB variable in the Defined class path variables list on the Classpaths Variables page of Java -> Preferences.
- B. Changing the default workbench JRE on the Installed JREs page of Java -> Preferences.
- C. Using the Edit option on the Java Build Path -> Source page of the properties dialog.
- D. Using the Edit Option on the Java Build Path -> Libraries page of the properties dialog.

Answer: B

QUESTION 43:

How is a new Task associated with a particular line in a file's source code?

- A. Click the New Task button on the Task view toolbar and enter the line in the Location field of the New Task Properties prompt window.
- B. Click the New Task button on the Task view toolbar and enter the line number directly

into the Location column of the new record created.

C. Right-click on the line in the source code, choose Add -> Task..., enter a description, and click OK.

D. Drag a task to the appropriate line in the source code.

Answer: C

QUESTION 44:

The Content Assist function in the Java editor can help find and complete:

- A. Java keywords
- B. Method names
- C. Parameter types
- D. HTML tags
- E. Local variable names

Answer: A, B, C

QUESTION 45:

A developer is working with two classes. ClassB has an attribute, "public int i;", and is a subclass of ClassA. The developer uses the refactoring wizard to "self encapsulate" field i. As a result of this action the following will be TRUE:

- A. "protected int i" is created in ClassB.
- B. "private int i" replaces "public int i" in ClassB.
- C. public getter and setter for field i are created in ClassA.
- D. public getter and setter for field i are created in ClassB.
- E. "private int i" is created in ClassA.

Answer: B,D

QUESTION 46:

In the Java perspective, there are wizards to explicitly create which of the following?

- A. Packages
- B. Classes
- C. Methods
- D. Fields
- E. Interfaces

Answer: A, B, E

QUESTION 47:

Prior to creating a JUnit test case, which of the following **MUST** be done?

- A. Create a JUnit Java project.
- B. Attach the src.jar contained in the org.junit plugin to the junit.jar.
- C. Add the necessary junit jar file to the project's build path.
- D. Specify the location of the junit.jar file on the Java -> JUnit Preferences page.

Answer: C

QUESTION 48:

While reviewing changes to a constructor of a given class, it can be important to find all of the places in the Workbench where instances of the class are being created. Starting in the Package view, the **MOST** likely direct way to find the places where the class is being created is:

- A. Open the class in the Java editor, select the constructor and Search for Declarations in the Workspace from the Context Menu.
- B. Open the class in the Java editor, select the constructor and Search for References from the Context Menu.
- C. Select the class name and Search for Constructor from the Context Menu.
- D. Select the class, click the Search toolbar button, select Constructor in the Search For pane and click Search.

Answer: B

QUESTION 49:

In addition to the default Profiling Filters definitions, the following are added at the top of the filters list: "com.ibm.ils* -> INCLUDE" and "java.awt.* -> INCLUDE". These become the new defaults. On a particular agent's filter properties, the following are added to the top of the filters list: "com.ibm.ils.* > EXCLUDE*" and "java.awt.* -> INCLUDE". Assuming the program loads classes in both packages, what activity would a developer expect to see in the Class Statistics?

- A. Any com.ibm.ils classes and no java.awt classes.
- B. No com.ibm.ils classes and no java.awt classes.
- C. No com.ibm.ils and no java.awt classes.
- D. Any com.ibm classes and no java.awt classes.

Answer: B

QUESTION 50:

Which of the following steps are REQUIRED in order to successfully collect data for the purpose of profiling an application that is running on WebSphere Studio?

- A. Logging must be enabled in the "Profiling and Logging" section of the Preferences dialog.
- B. The Java Just-In-Time (JIT) compiler feature must be active.
- C. The IBM Agent Controller service must be running.
- D. The Java process that is running the application must be attached to a Profiling Agent.
- E. Profiling must be enabled in the "Profiling and Logging" section of the Preferences dialog.

Answer: C, D, E

QUESTION 51:

A developer is examining the output of data collected from Profiling a poorly performed application in WebSphere Studio. While looking in the Class Instance Statistics, the developer discovers that a class has a high "Instance Size" value. The MOST likely cause for this poor performance is:

- A. Too many instances of the class.
- B. Too many lines of code in the class.
- C. Too much time spent executing the code in the class.
- D. Too much memory consumed by the class.

Answer: D

QUESTION 52:

An SQL statement (.sql file) can be executed against which of the following entities?

- A. A remote database.
- B. A local database.
- C. Imported tables within WebSphere Studio.
- D. A database or schema model within WebSphere Studio.

Answer: B, C

QUESTION 53:

When creating a connection to a database in the DB Servers view of the Data perspective, where should the location of the JDBC driver classes be specified?

- A. In the Data section of the Workbench Preferences dialog.
- B. In the Create Connection dialog.
- C. In the target project's data properties.
- D. Via a separate dialog that prompts for the JDBC driver location.

Answer: B

QUESTION 54:

WebSphere Studio data tooling can explicitly generate DDL for which of the following data artifacts?

- A. Schema
- B. Table
- C. Relation
- D. Column
- E. Database

Answer: A, B

QUESTION 55:

When using the Bean property browser to insert dynamic content into a JSP from within Page Designer, which implicit objects can the developer see?

- A. request
- B. pageContext
- C. servletContext
- D. JspPrintWriter

Answer: A, B

QUESTION 56:

If a JAR file is referenced by multiple J2EE modules, and all modules are in the same Enterprise Application project, where is the BEST location for the JAR file?

- A. Place the JAR file anywhere but add it to the ws.ext.dirs classpath.
- B. Import it to the associated Enterprise Application project.
- C. Import it to a Web Project.
- D. Import it to an EJB project.

Answer: A

QUESTION 57:

A Web Developer who is using Page Designer needs to change the background color for all of the pages in a Web project. The MOST efficient way to accomplish this is to use:

- A. The Color Editor to change the background color of the top level pages.
- B. The Color Palette and Cascading Style Sheet Manager.
- C. A Cascading Style Sheet to change the background color for the top level pages and let the change cascade to all other pages in the site.
- D. A Cascading Style Sheet to change the background color for pages and then apply the Cascading Style Sheet to each web page.

Answer: D

QUESTION 58:

After creating a Web project, a developer realizes that no relationship was specified with an enterprise application. How can this association be created?

- A. Open the web.xml editor for the Web project and add the enterprise application as a module.
- B. Open the web.xml editor for the enterprise application and add the Web project as a module.
- C. Open the application.xml editor for the Web project and add the enterprise application as a module.
- D. Open the application.xml editor for the enterprise application and add the Web project as a module.

Answer: D

QUESTION 59:

Which of the following BEST describes the information contained in an exported EAR file?

- A. Descriptors for any web, EJB, or application client modules that are needed to run the application and references to any supporting JAR files.
- B. Descriptors for any web, EJB, or application client modules that are needed to run the application, references to any supporting JAR files, and information to configure the server.
- C. Web, EJB, or application client modules that are needed to run the application, and any supporting JAR files.
- D. Web, EJB, or application client modules that are needed to run the application, any supporting JAR files, and information to configure the server.

Answer: C

QUESTION 60:

An HTML document, login.html, contains the following form tag:

```
<form method="POST" action="j_security_check">
```

```
<input type="password" name="j_password">
</form>
```

Which of the following is the MOST likely action that a developer would have performed using the web.xml editor to ensure that the POST action is processed?

- A. In the Servlets tab, add a servlet with URL mapping j_security_check.
- B. In the Pages tab, select Form based authentication, and specify the realm, login page and error page.
- C. In the Security tab, add a security constraint and a corresponding web resource collection for j_security_check.
- D. In the Security tab, add Security roles that define who can access login.html.

Answer: A

QUESTION 61:

When creating web pages using the Create database web pages wizard, which of the following information can be specified?

- A. Database model information
- B. Stored procedure information
- C. Whether View Beans should be generated
- D. Mapping between Java data types and Database data types
- E. Runtime database connection information

Answer: A, C, E

QUESTION 62:

What resource can be added as module dependencies to a Web project?

- A. Application client project associated with the same Enterprise Application project.
- B. Another Web project associated with the same Enterprise Application project.
- C. A Java Project in the workbench.
- D. A JAR file in the associated Enterprise Application project.

Answer: D

QUESTION 63:

When creating a Web project, which tag libraries CANNOT be included?

- A. J2EE
- B. Struts
- C. JSTL
- D. Database access

Answer: C

QUESTION 64:

A Web Project called TestWebProject is created under the Enterprise Application project TestEAR, with context root "testweb". A dependent JAR containing utility classes is specified during creating. Which of the following are valid consequences of the creation of this Web project?

- A. The application .xml file of TestEar.ear is updated with the web application and its context root.
- B. The dependent JAR is automatically included as part of the classpath entry in web.xml file and application.xml file.
- C. A Java project called TestWebProject is also created to maintain the .java files of the web application.
- D. By default, a Web Content folder is created that represents the contents of the .war file when this web application is deployed.

Answer: A, D

QUESTION 65:

Which of the following can be specified or configured in the web.xml file?

- A. ServletContext Initialization parameters.
- B. HttpRequest Configuration parameters (Such as timeouts).
- C. Welcome File list.
- D. Servlet and JSP URL Mappings.
- E. JavaBeans References.

Answer: A, C, D

QUESTION 66:

A valid way of requesting HTML Content Assist is to:

- A. Press Alt-Enter (ALT Key AND the ENTER key)
- B. Press Shift-Enter (Shift Key AND the ENTER key)
- C. Press Shift-Space (Shift Key AND the SPACE key)
- D. Press Ctrl-Space (CTRL Key AND the SPACE key)

Answer: D

QUESTION 67:

A developer is writing a web application which makes extensive use of JDBC 2.0 DataSource to access relational databases. During testing it is found that, although the performance is initially good, the performance of database access operations becomes very poor after a short time. Which of the following is the BEST way to improve this situation?

- A. Modify the application code to close JDBC connections, result sets and statements when they are no longer required.
- B. Decrease the orphan timeout period for connections created by the DataSource.
- C. Increase the size of the thread pool to allow more threads to create database connections.
- D. Decrease the stale connection timeout period of the DataSource.

Answer: A

QUESTION 68:

A developer has written a utility class which provides real-time stock market information. The developer wishes to make an instance of this class available to every Servlet and JSP in a web application. Which is the BEST context (or scope) in which to place the object?

- A. Request
- B. Response
- C. Session
- D. Application
- E. Page

Answer: D

QUESTION 69:

The Value Object Design Pattern is commonly used in server-side software development. Value Objects have which of the following characteristics?

- A. They contain control logic which can be invoked by a JSP.
- B. They have methods which can be used by a JSP to obtain HTML-formatted dynamic content.
- C. They have getter methods that a JSP can use to populate its dynamic content.
- D. They are used to encapsulate business logic, which can be invoked from within a JSP.

Answer: D

QUESTION 70:

The Memento Design Pattern is useful in web applications for which of the following

purposes?

- A. Information entered into a form can be stored and used to repopulate the entry fields if the form is subsequently redisplayed.
- B. Information obtained from a relational database can be stored locally to minimize the number of database operations required.
- C. Objects obtained from a JNDI server can be stored after retrieval to reduce the number of JNDI operations.
- D. Database connections obtained from a DataSource can be stored to reduce the number of connection requests.

Answer: A

QUESTION 71:

In a web application, a JSP is required to display a table which lists the name, number and balance of each account. The number of accounts varies between customers. Import goals in the application design process are:

- Provide the best possible separation of development roles
- Create reusable code where possible
- Minimize the maintenance overhead for the application

Which of these is the BEST approach to generating the table?

- A. Code the loop in JSP scriptlets, using JavaBean properties to populate the cells.
- B. Develop a JavaBean with a method which returns all the HTML requires for the table.
- C. Produce a JSP for each possible number of accounts and a Servlet to choose between them as required.
- D. Use custom tags to control the loop and JavaBean properties to populate the cells.

Answer: D

QUESTION 72:

A web application is stress tested and found to have very poor performance when persistent sessions are enabled. Which of the following is MOST likely to correct this performance problem?

- A. Reduce the number of object references stored directly in the HttpSession.
- B. Change the persistent session settings to map HttpSession to multiple database rows.
- C. Enable the HttpSession cache.
- D. Reduce the size and complexity of the object graph stored in the HttpSession.

Answer: D

QUESTION 73:

The default Profiling Filters EXCLUDE classes in the com.ibm.* package. However, the developer is interested in including classes in the com.ibm.ils.* package. Which positions for the added INCLUDE filter will be effective for capturing those classes?

- A. At the bottom of the list.
- B. At the top of the list.
- C. Anywhere after the com.ibm.* entry.
- D. Anywhere before the com.ibm.* entry.

Answer: B, D

QUESTION 74:

A developer has just finished debugging an Enterprise Application on a WebSphere v5.0 Test Environment server and wishes to start collecting performance data using the Profiling tools. Which of the following steps must be completed before this task can be performed?

- A. Stop the server and start it in profiling mode.
- B. Enable the Java Just-In-Time (JIT) compiler.
- C. Enable Tracing in the Server Configuration.
- D. Start the IBM Agent Controller.

Answer: A, D

QUESTION 75:

A developer needs to create a set of complex SQL statements. Which of the following tools would BEST serve this purpose?

- A. SQL scripter
- B. SQL editor
- C. SQL query builder
- D. SQL structure builder

Answer: C

QUESTION 76:

A developer wants to create a new table using the Data tools in WebSphere Studio. In which view MUST the developer work?

- A. Data Definition
- B. DB Servers
- C. Table
- D. Navigator

Answer: A

QUESTION 77:

While writing JDBC code in a Java Project, a developer needs to see the schema (metadata) for a database. What is the minimum set of tasks which **MUST** be accomplished in WebSphere Studio to meet this need?

- A. Start the data connector agent.
- B. Create a data object filter.
- C. Create a connection to the database.
- D. Open up tables of interest in DB Servers view.
- E. Import the schema to Java Project folder.

Answer: C, D

QUESTION 78:

When creating a Web Project in WebSphere Studio, the initial set of files will be created in either:

- A. The repository.
- B. The deployment directory of the application server.
- C. A WebSphere Studio determined directory.
- D. A developer specified directory.
- E. The root directory as specified by the J2EE(TM) spec.

Answer: C, D

QUESTION 79:

To add a newly created project to the team's version control management system, a developer must:

- A. Export the Local History to the remote repository.
- B. Right-click on the project and select Team -> Share Project.
- C. Select the appropriate version control management system in the project's properties.
- D. Select Add to Version Control in the Project menu.

Answer: B

QUESTION 80:

Which of the following are **TRUE** about the Compare and Replace functions in regard to the local history?

- A. The both list the dates and times that the files were last saved.
- B. They can operate on different filenames.
- C. They can operate on more than two files.
- D. They only operate on files in the workspace.
- E. They can operate on files at a remote location.

Answer: A, D

QUESTION 81:

A consultant working on projects from different clients needs to be able to completely separate each client's projects. What is the BEST way to accomplish this using WebSphere Studio?

- A. Name the projects with a scheme that distinguishes them from each other.
- B. Load multiple projects at the same time into the workspace and configure each with a unique name.
- C. Have a separate workspace for each client's projects in the file system.
- D. Use options under the File menu to load the desired project.

Answer: C

QUESTION 82:

A developer is given a J2EE EAR file that contains source and wants to develop and test the application. Which of the following tasks **MUST** be performed to import this J2EE application into WebSphere Studio?

- A. Use the EAR Import utility to create the Enterprise Application Project and contained module project(s) directly from the EAR file.
- B. Use the Create Enterprise Application Project Wizard to create the J2EE projects within WebSphere Studio and import those modules from the EAR file.
- C. Use the Create Web Project Wizard to create a Web project within WebSphere Studio and then use the EAR import utility to populate the Web project.
- D. Use the WAR import utility to create a Web project and the containing Enterprise Application Project and populate each from the EAR file.

Answer: A

QUESTION 83:

A developer wishes to customize the Web Perspective to add the toolbar button for launching Java applications. Which of the following tasks **MUST** the developer perform to add this button to the toolbar?

- A. Open a perspective which has this button in the toolbar in a new window, and drag it into the Web Perspective's toolbar.
- B. Select Windows -> Customize Perspective and select Launch from the list of Action Sets.
- C. Right-click on the Web Perspective's toolbar and select the Launch option from the context menu.
- D. Select Window -> Preferences and select the "Show launch buttons in other perspectives" checkbox from the Java section.

Answer: B

QUESTION 84:

While debugging a web application using the WebSphere V5.0 Test Environment, which of the following is FALSE?

- A. Variable values can be modified while suspended at a breakpoint using the Variables view.
- B. Properties of breakpoints can be modified at any stage.
- C. Expressions can be evaluated using the Expressions view or the Display view.
- D. Methods modified during debugging will automatically be restarted from the beginning.

Answer: D

QUESTION 85:

A web developer is debugging the doGet() method in a Servlet that is running in the WebSphere Test Environment. After stepping over the following line of code:
`String requestNumber = request.getParameter("reqID");`
The developer replaces "reqID" with "requestNumber" and saves the changed file.
What is the MOST efficient way to retest the Servlet?

- A. Press "Resume" in the Debug view, then reload the page in the web browser.
- B. Select "Debug Last Launched" from the Run menu.
- C. Select "Drop to Frame" from the context menu of the Servlet thread.
- D. Restart the WebSphere Test Environment server using the Servers view and reload the page in the web browser.
- E. Place the cursor at the beginning of the modified line, right-click and select "Run to Line".

Answer: A

QUESTION 86:

The Activity Log view can be used to analyze WebSphere Application Server

activity log files. What is the MAIN advantage of using this approach for analyzing logs?

- A. Problems can be diagnosed using a symptom database.
- B. Logging information can be collected in real time.
- C. The logs files are collected automatically from running servers.
- D. The view provides a simple way of viewing SystemOut.log.

Answer: A

QUESTION 87:

When debugging a remote WebSphere Application Server instance, which of the following statements accurately reflect the debugging configuration?

- A. The debugger is run on the remote machine.
- B. The server instance is run on the local machine.
- C. The server instance is controlled from the local machine.
- D. The behavior of the server is observed on the local machine.
- E. The IBM Agent Controller runs on the local machine.

Answer: A, D

QUESTION 88:

Execution of a JSP has suspended on Breakpoint while running in the WebSphere Test Environment. Which of the following is TRUE?

- A. Variable values can be examined and modified in the Variables view.
- B. Expressions can be inspected in the Expressions view.
- C. Expressions can be displayed in the Display view.
- D. Breakpoints can be configured with a Hit Count in the Breakpoints view.

Answer: D

QUESTION 89:

A developer right-clicks on a Servlet and selects "Debug on Server". Assuming the WebSphere Test Environment (version 5.0) is using the default configuration, what happens after the server has started?

- A. The Servlet will run until its thread is manually suspended.
- B. The Servlet will run to the first breakpoint.
- C. The "Step-by-Step Debug" dialog will appear.
- D. Execution will be suspended at the start of the Servlet's service method.

Answer: C

QUESTION 90:

Which of the following are properties which can be modified for a Java Line Breakpoint?

- A. Hit Count
- B. Suspend Policy
- C. JVM Applicability
- D. Caught/Uncaught
- E. Restrict to Selected Locations

Answer: A, B

QUESTION 91:

The Java Editor code assist facility does the following by default:

- A. Automatically inserts single proposals.
- B. Shows only proposals visible in the invocation context.
- C. Hides Javadoc information associated with proposal selected in list.
- D. Fills argument name on method completion.
- E. Automatically adds qualified name instead of import statement.

Answer: A, D

QUESTION 92:

Why would a developer use the Extract Method Wizard?

- A. To remove a method from one class and place it in another, to better distribute responsibilities.
- B. To remove a method and all of the references to it, since it is no longer needed.
- C. To move a selected part of a method to a new method and replace the original code with a call to that new method.
- D. To retrieve a method from a JAR file.

Answer: C

QUESTION 93:

When creating a new Java Project using the wizard, what is the principal function of the "Projects" tab?

- A. To name the project and specify its source folders.
- B. To add existing projects to the new project's Java Build Path.
- C. To include additional Jar files if the new project requires additional libraries.
- D. To view and import projects located in a team repository.

Answer: B

QUESTION 94:

****MISSING INFORMATION****

```
public int returnTwo(long x){  
    return 2;  
}  
  
private static int returnOne(long x){  
    return 1;  
}  
}
```

Example B:

```
Package myPackage;  
Public interface InterfaceX{  
    Public static final String x="yo";  
}
```

Which of the following references to elements of the source files MAY be displayed along with ClassA?

- A. returnOne(long)
- B. returnTwo(long)
- C. x
- D. InterfaceX
- E. ClassC

Answer: A, E

QUESTION 95:

The "Errors and Warnings" section of the Java-->Compiler preferences page allows a developer to select the severity level of the following problems:

- A. Unreachable code
- B. Non terminated strings
- C. Unresolvable import statements
- D. Non initialized instance variables
- E. Unused import

Answer: A, C, E

QUESTION 96:

How is the priority of a Task set?

- A. Double-click a Task to launch the Tasks Property dialog and choose the priority from the "Priority" dropdown list.
- B. Right-click a Task and select Properties to launch the Tasks Property dialog and choose the priority from the "Priority" dropdown list.
- C. Right-click a Task and select Set Priority and then High, Normal, or Low.
- D. Click the "!" column of a Task and select High, Normal, or Low from the dropdown list.

Answer: D

QUESTION 97:

How does a developer manage the build path of a Java Project?

- A. The build path is set from the context menu of a project in the J2EE Navigator view.
- B. The build path is set in the Build Path page on the properties dialog of a project.
- C. The build path is determined by the source folders set up within a project and through the import statements in the code.
- D. The build path is set only when the project is created or when new packages are added to it.

Answer: B

QUESTION 98:

While creating a new Java Project, there is a large external JAR file that this project and other projects are going to need to add to their build paths. The BEST way to make this JAR file available to all projects would be to:

- A. Add the external JAR file to each of the projects.
- B. Create a classpath variable that refers to the external JAR and add it to each project's build path.
- C. Import the external JAR file into this project and then add this project to all the other project's build path.
- D. Import the external JAR into one of other projects and add that project to the build path while creating this project.
- E. Import the external JAR file into each of the projects.

Answer: B

QUESTION 99:

Which accurately describes the steps for adding the import statement for ClassZ? ClassZ is in a different package. Package packageA; public class ClassX{ Classz classZ = new ClassZ(); }

- A. Right-click anywhere in the source and choose Source-->Add Import.
- B. Select "ClassZ", right-click, and choose Source-->Add Import.
- C. Select the filename in Package Explorer, right-click, and choose Source-->Add Import.
- D. Select the entire line that references ClassZ, right-click, and choose Source-->Add Import.

Answer: B

QUESTION 100:

The search function of a class in the Outline view can be used to locate:

- A. Types in Workspace using search expressions.
- B. Declarations in Workspace regardless of package.
- C. References in Workspace regardless of package.
- D. References to errors in selected resource.

Answer: B, C

QUESTION 101:

Which of the following may be displayed in the Outline view in the Java perspective?

- A. Packages
- B. Private methods
- C. Errors
- D. Field members declared within a class.
- E. Variables declared within methods.

Answer: A, B, D

QUESTION 102:

How does a developer know if a server has the latest version of an application?

- A. Files that have been created or changed since the last time the project was published have a red circle next to them (hollow if it was created since the last deployment, solid if it was simply edited).

- B. The Server state column of the Servers view indicates "Server is synchronized" if the server has the latest version of the application, or "The server should be republished" if the published version is different from the version in the workspace.
- C. The project displays one of three icons in the Navigator view: a green "up" arrow if the project was published, a broken green "up" arrow if the project was updated without republishing, or a red "down" arrow if the project has not been published at all.
- D. WebSphere Studio does not compare local and remote versions of an application until it is published. The Publishing dialog will list resources which have been created, changed or deleted.

Answer: B

QUESTION 103:

A WebSphere Remote Server instance was created using the appropriate information about the remote WebSphere Application Server. During the creation process the FTP file transfer mechanism was selected. What is the sequence of steps that would successfully start the remote server from Application Developer?

- A. Start the Agent Controller on the remote machine, start the FTP server on the remote machine, and start the remote server instance from Application Developer.
- B. Start the Agent Controller on the remote machine, start the FTP server on the local machine, and start the remote server instance from Application Developer.
- C. Start the FTP server on the local machine, start the remote server instance from Application Developer, and start the Agent Controller on the remote machine.
- D. Start the FTP server on the local machine, start the Agent Controller on the local machine, and start the remote server instance from Application Developer.

Answer: A

QUESTION 104:

After server templates are created, the list of templates can be found by performing which of these steps from the Server perspective?

- A. Right-clicking on a Server in the Server Configuration View and selecting View Templates.
- B. Selecting Windows -> Show View-> Templates from the menu bar.
- C. Selecting Server -> Template from the menu bar.
- D. Selecting Window -> Preferences -> Server -> Templates.

Answer: D

QUESTION 105:

A developer is able to successfully test files in one Enterprise Application using an

existing WebSphere v5.0 Test Environment server. A dialog appears to create a new server when the developer tries to test a file in a new Enterprise Application. The MOST likely cause is:

- A. The new Enterprise Application has not been associated with a Server Project.
- B. The Enterprise Application was created using J2EE 1.2 which is not supported by the WebSphere v5.0 Test Environment.
- C. The new Enterprise Application Project has not been associated with the server configuration.
- D. The existing server is not currently started.

Answer: C

QUESTION 106:

A developer is examining the output of data collected from Profiling a poorly performing application in WebSphere Studio. While looking in the Class Instance Statistics, the developer discovers that a class has a high "Cumulative Time" value, but a low "Base Time" value. The MOST likely cause for this poor performance is:

- A. A constructor in the class.
- B. A method or methods in the class.
- C. The caller of the class.
- D. A method or methods in one of the called classes.

Answer: D