Chapter 24

Section 24.1

24.1 Q1: Servlets are effective for developing Web-based solutions that help ______________.
   a. Provide secure access to a Web site.
   b. Interact with databases on behalf of a client.
   c. Dynamically generate custom XHTML documents to be displayed by browsers and maintain unique session information for each client.
   d. All of the above.
ANS: d. All of the above.

24.1 Q2: Which of the followings is a thin client?
   a. Applications that require minimal client-side support.
   b. Applications that require minimal server-side support.
   c. Applications that use JSP or servlets.
   d. Applications that do not use JSP and servlets.
ANS: a. Applications that require minimal client-side support.

Section 24.2

24.2 Q1: Which of the following statements is false?
   a. Servlet and JDBC technology can be used together to build multi-tier client-server systems.
   b. In most cases servlet and JSP technologies are not interchangeable.
   c. Servlets can interact with a database.
   d. Servlets can interact with other servlets, JSPs or Enterprise JavaBeans.
ANS: b. In most cases servlet and JSP technologies are not interchangeable.

24.2 Q2: Put the following communications between clients and servers in the correct order.
   A. The servlet does its processing, which may include interacting with a database or other server-side components.
   B. A client sends an HTTP request to the server.
   C. The servlet container directs the request to appropriate servlet.
   D. The servlet returns its result to the client.
   a. A, B, C, D.
   b. A, C, B, D.
   c. B, C, A, D.
   d. B, A, C, D.
ANS: c. B, C, A, D.

Section 24.2.1

24.2.1 Q1: The servlet container calls method ______________ once per request.
   a. init.
   b. getServletConfig.
   c. service.
   d. destroy.
ANS: a. service.

24.2.1 Q2: Which of the tasks below is not performed by method service?
   a. Initializes the servlet.
   b. Receives the request.
   c. Processes the request.
   d. Sends a response to the client.
ANS: a. Initializes the servlet.

Section 24.2.2

24.2.2 Q1: When a request arrives at the server, which of the following actions happen?
   A. The servlet container calls method service.
B. Method `service` determines the request type.
C. Method `service` calls the appropriate method for handling such a request.
a. A and C.
b. B.
c. All of the above.
d. None of the above.
ANS: c. All of the above.

24.2.2 Q2: ____________ is not a method of class `HttpServlet`.
   a. Method `doGet`.
   b. Method `doPost`.
   c. Method `doService`.
   d. Method `doHead`.
ANS: c. Method `doService`.

Section 24.2.3

24.2.3 Q1: Which of following methods belongs to interface `HttpServletRequest`?
   a. `getParameter`.
   b. `getParameterNames`.
   c. `getParameterValues`.
   d. All of the above.
ANS: d. All of the above.

Section 24.2.4

24.2.4 Q1: Which of following methods belongs to interface `HttpServletResponse`?
   a. `getWrite`.
   b. `getOutputStream`.
   c. `getInputStream`.
   d. All of the above.
ANS: b. `getOutputStream`.

Section 24.3

24.3 Q1: If method `doGet` is unable to handle a client’s request, it throws an exception of type ____________.
   a. `javax.servlet.ServletException`.
   c. `java.io.IOException`.
   d. `java.io.Exception`.

24.3 Q2: The term ____________ often is used when describing popular services on the Internet such as Web servers and email servers.
   a. handshake point.
   b. localhost.
   c. well-known port number.
   d. MIME.
ANS: c. well-known port number.

Section 24.3.1

24.3.1 Q1: To verify that Tomcat is executing and can respond to requests, open your Web browser and enter the URL ____________.
   A. `http://localhost:8080/`
   B. `http://127.0.0.1:8080/`
   C. `http://localhost:80/`
   D. `http://127.0.0.1:80/`
a. A and B.
b. C and D.
c. A.
d. D.
ANS: a. A and B.

Section 24.3.2

24.3.2 Q1: Which directory should contain the servlet class `MyServlet.class` if `MyServlet` is part of a package `com.deitel.jhttp5.servlet`?

a. WEB-INF/
b. WEB-INF/lib/
c. WEB-INF/classes/
d. WEB-INF/classes/com/deitel/jhttp5/servlet.


24.3.3 Q2: What is the context root in `http://localhost:8080/jhttp5/welcome1`?

a. localhost
b. 8080
c. jhttp5
d. welcome1

ANS: c. jhttp5.

Section 24.4

24.4 Q1: Which of the following URLs sends a `GET` request by appending name/value pairs into the browser’s Address or Location field.


Section 24.5

24.5 Q1: Browsers often ____________ Web pages so they can quickly reload the pages.

a. revisit.
b. redo.
c. cache.
d. upload.

ANS: c. cache.

Section 24.6

24.6 Q1: Method ____________ from interface ____________ receives the parameter name as an argument and returns an array of strings containing the parameter values in most recent to least recent order.

a. `getParameters`, `HttpServletRequest`.
b. `getParameterValues`, `HttpServletRequest`.
c. `getParameters`, `HttpServletResponse`.
d. `getParameterValues`, `HttpServletResponse`.

ANS: b. `getParameterValues`, `HttpServletRequest`.

Section 24.7

24.7.1 Servlets can obtain initialization parameter values by invoking ____________ method ____________, which receives a string representing the name of the parameter.

a. `ServletInitialization`, `getInitParameters`.
b. `ServletInitialization`, `getInitParameter`.
c. `ServletConfig`, `getInitParameters`.
d. `ServletConfig`, `getInitParameter`.

ANS: d. `ServletConfig`, `getInitParameter`.
24.7.2 Each initialization parameter appears in a(n) ____________ element.
   a. initial-parameters.
   b. ini-parameters.
   c. init-param.
   d. init-params.
   ANS: c. init-param.