

1. Which of the following interfaces or classes is used to retrieve the session associated with a user? (Select one)

a GenericServlet
b ServletConfig
c ServletContext
d HttpServlet

e HttpServletRequest
f HttpServletResponse

2. Which of the following code snippets, when inserted in the doGet () method, will correctly count the number of GET requests made by a user? (Select one)

a HttpSession session = request.getSession();
int count = session.getAttribute("count");
session.setAttribute("count", count++);
b HttpSession session = request.getSession();
int count = (int) session.getAttribute("count");
session.setAttribute("count", count++);
c HttpSession session = request.getSession();
int count = ((Integer) session.getAttribute("count")).intValue();
session.setAttribute("count", count++);
d HttpSession session = request.getSession();
int count = ((Integer) session.getAttribute("count")).intValue();
session.setAttribute("count", new Integer(++count));

3. Which of the following methods will be invoked on a session attribute that implements HttpSessionBindingListener when the session is invalidated? (Select one)

a sessionDestroyed
b valueUnbound
c attributeRemoved
d sessionInvalidated

4. Which of the following methods will be invoked on a session attribute that implements appropriate interfaces when the session is invalidated? (Select one)
- a** `sessionDestroyed` Of `HttpSessionListener`
 - b** `attributeRemoved` Of `HttpSessionAttributeListener`
 - c** `valueUnbound` Of `HttpSessionBindingListener`
 - d** `sessionWillPassivate` Of `HttpSessionActivationListener`
5. Which of the following methods will expunge a session object? (Select one)
- a** `session.invalidate()` ;
 - b** `session.expunge()` ;
 - c** `session.destroy()` ;
 - d** `session.end()` ;
 - e** `session.close()` ;
6. Which of the following method calls will ensure that a session will never be expunged by the servlet container? (Select one)
- a** `session.setTimeout(0)` ;
 - b** `session.setTimeout(-1)` ;
 - c** `session.setTimeout(Integer.MAX_VALUE)` ;
 - d** `session.setTimeout(Integer.MIN_VALUE)` ;
 - e** None of these
7. How can you make sure that none of the sessions associated with a web application will ever be expunged by the servlet container? (Select one)
- a** `session.setMaxInactiveInterval(-1)` ;
 - b** Set the session timeout in the deployment descriptor to -1.
 - c** Set the session timeout in the deployment descriptor to 0 or -1.
 - d** Set the session timeout in the deployment descriptor to 65535.
 - e** You have to change the timeout value of all the sessions explicitly as soon as they are created.
8. In which of the following situations will a session be invalidated? (Select two)
- a** No request is received from the client for longer than the session timeout period.
 - b** The client sends a `KILL_SESSION` request.
 - c** The servlet container decides to invalidate a session due to overload.
 - d** The servlet explicitly invalidates the session.
 - e** A user closes the active browser window.
 - f** A user closes all of the browser windows.

9. Which method is required for using the URL rewriting mechanism of implementing session support? (Select one)
- a** `HttpServletRequest.encodeURL()`
 - b** `HttpServletRequest.rewriteURL()`
 - c** `HttpServletResponse.encodeURL()`
 - d** `HttpServletResponse.rewriteURL()`
10. The users of your web application do not accept cookies. Which of the following statements are correct? (Select one)
- a** You cannot maintain client state.
 - b** URLs displayed by static HTML pages may not work properly.
 - c** You cannot use URL rewriting.
 - d** You cannot set session timeout explicitly.

