

Question 1**1 points**

✔ Saved

Which types define the methods `getAttribute()` and `setAttribute()`? Choose two.

- ☒ ServletContext
- ☐ ServletResponse
- ☐ ServletConfig
- ☒ ServletRequest
- ☐ SessionConfig

Question 2**1 points**

✔ Saved

If you need an Account Object to be created and shared with ALL web components (ie: Servlets and JSP's) it is best to use a ServletContext for that.

- ☐ True
- ☒ False

Question 3**1 points**

Save Answer

Which statements about RequestDispatcher are true (where applicable, assume the RequestDispatcher was not obtained via a call to `getNamedDispatcher()`)? Choose two.

- ☐ The only method in the RequestDispatcher interface is `forward()`.
- ☒ The servlet to which a request is forwarded may access the original query string by calling `getAttribute("javax.servlet.forward.query_string")` on the ServletRequest.
- ☐ Parameters specified in the query string used to create a RequestDispatcher are not forwarded by the `forward()` method.
- ☒ A RequestDispatcher can be used to forward a request to another servlet.

Question 4**1 points**

✔ Saved

What is the recommended way to deal with servlets and thread safety?

- ☒ Use local variables exclusively, and if you have to use instance variables, synchronize access to them.
- ☐ Log all servlet method calls.
- ☐ Write the servlet code to extend `ThreadSafeServlet`.
- ☐ Have the servlet implement `SingleThreadModel`.

Question 5**1 points**

✔ Saved

Which methods are used by a servlet to handle form data from a client?

- ☐ `ServletRequest.doGet()`
- ☒ `HttpServlet.doPost()`
- ☐ `HttpServlet.doHead()`
- ☐ `HttpServlet.doForm()`

Question 6**1 points**

✓ Saved

Which types of objects can store attributes?

- ☐ RequestDispatcher
- ☐ ServletConfig
- ☒ HttpServletRequest
- ☐ HttpSessionContext

Question 7**1 points**

✓ Saved

When declaring a listener in the DD, which sub-elements of the <listener> element are required?

- ☐ <listener-name>
- ☒ <listener-class>
- ☐ <servlet-mapping>
- ☐ <description>

Question 8**1 points**

✓ Saved

All the lifecycle methods of a servlet (init(), service() and destroy()) is best overridden every time you create a ServletConfig object.

- ☐ True
- ☒ False

Question 9**1 points**

✓ Saved

Choose the servlet code fragment that gets a binary stream for writing an image or other binary type to the HttpServletResponse.

- ☐ `java.io.PrintWriter out = new PrintWriter(response.getWriter());`
- ☒ `ServletOutputStream out = response.getOutputStream();`
- ☐ `ServletOutputStream out = response.getBinaryStream();`
- ☐ `java.io.PrintWriter out = response.getWriter();`

Question 10**1 points**

Save Answer

There can be 10 ServletConfig objects if there are 10 Servlets.

- ☒ True
- ☐ False

Question 9**1 points**

✓ Saved

It is always best to synchronized the service method to address the concurrency problems of having multiple client access to one instance variable.

- ☐ True
- ☒ False

Question 12

1 points

Save Answer

Which method of HttpServletResponse is used to redirect an HTTP request to another URL?

- ☐ redirectHttp()
- ☐ sendURL()
- ☐ getRequestDispatcher()
- ☒ sendRedirect()

Question 13

Q11) When using a RequestDispatcher, the use of which methods can often lead to an **IllegalStateException**?

Ans: flush, write

Question 14

1 points

✓ Saved

How would you set a header named "CONTENT-LENGTH" in the HttpServletResponse object?

- ☐ response.setHeader("CONTENT-LENGTH","1024");
- ☐ response.setHeader("CONTENT-LENGTH",1024);
- ☒ response.setHeader("CONTENT-LENGTH","1024");
- ☐ response.setStatus(1024);

Question 6

1 points

✓ Saved

Given this code from an otherwise valid HttpServlet that has also been registered as a ServletRequestAttributeListener:

```
10. public void doGet(HttpServletRequest req, HttpServletResponse res)
11. throws IOException, ServletException {
12.   req.setAttribute("a", "b");
13.   req.setAttribute("a", "c");
14.   req.removeAttribute("a");
15. }
16. public void attributeAdded(ServletRequestAttributeEvent ev) {
17.   System.out.print(" A:" + ev.getName() + "->" + ev.getValue());
18. }
19. public void attributeRemoved(ServletRequestAttributeEvent ev) {
20.   System.out.print(" M:" + ev.getName() + "->" + ev.getValue());
21. }
22. public void attributeReplaced(ServletRequestAttributeEvent ev) {
23.   System.out.print(" P:" + ev.getName() + "->" + ev.getValue());
24. }
```

What logging output is generated?

- ☐ A:a->b M:a->b A:a->c P:a->null
- ☒ A:a->b P:a->b M:a->c
- ☐ A:a->b P:a->b P:a->null
- ☐ A:a->b M:a->b A:a->c M:a->c

Question 16**1 points**

Saving Answer

Which statements about ServletContext initialization parameters are true? Choose three.

- ☒ They should be used for data that is applicable to an entire web application.
- ☒ They should be used for data that changes rarely.
- ☐ They can be accessed using `ServletContext.getParameter(String)`.
- ☐ They should be used for data that changes frequently.
- ☒ They can be accessed using `ServletContext.getInitParameter(String)`.

Question 17**1 points**

Save Answer

A ServletContext is an object that can be shared among ALL Servlets and JSP's

- ☒ True
- ☐ False

Question 18**1 points**

Save Answer

How would servlet code from a service method (e.g., `doPost()`) retrieve the value of the "User-Agent" header from the request?

- ☒ `String userAgent = request.getHeader("User-Agent");`
- ☐ `String userAgent = request.getParameter("User-Agent");`
- ☐ `String userAgent = getServletContext().getInitParameter("User-Agent");`
- ☐ `String userAgent = request.getRequestHeader("Mozilla");`

Question 19**1 points**

Save Answer

Which HTTP methods are NOT considered idempotent?

- ☐ HEAD
- ☐ GET
- ☒ POST
- ☐ PUT

Question 20**1 points**

Save Answer

Which of the following statement is true?

- ☐ Only the container can invalidate a session.
- ☐ When a web application is preparing to shutdown, the order of listener notification is not guaranteed.
- ☐ When listener-friendly events occur, listener invocation order is not predictable.
- ☒ The container registers listeners based on declarations in the deployment descriptor.

Question 21**1 points**

✓ Saved

Which of the following methods are declared in `HttpServletRequest` as opposed to in `ServletRequest`? Choose three.

- ☒ `getMethod()`
- ☐ `getInputStream()`
- ☒ `getHeader()`
- ☐ `getParameterNames()`
- ☒ `getCookies()`

Question 22**1 points**

✓ Saved

Given `req` is a `HttpServletRequest`, which gets a binary input stream?

- ☐ `BinaryInputStream s = req.getInputStream();`
- ☐ `ServletInputStream s = req.getBinaryStream();`
- ☒ `ServletInputStream s = req.getInputStream();`
- ☐ `BinaryInputStream s = req.getBinaryStream();`

Question 23**1 points**

✓ Saved

Which HTTP methods are used to show the client what the server is receiving?

- ☐ GET
- ☐ POST
- ☒ TRACE
- ☐ PUT

Question 24**1 points**

Save Answer

Which statements about listeners are true? Choose three.

- ☒ A `ServletContextListener` can be used to perform an action when the servlet context is about to be shut down.
- ☒ An `HttpSessionListener` can be used to perform an action when an `HttpSession` has timed out.
- ☐ A `ServletContextAttributeListener` can be used to perform an action when the servlet context has just been created and is available to service its first request.
- ☒ A `ServletRequestAttributeListener` can be used to perform an action when an attribute has been removed from a `ServletRequest`.

Question 25**1 points**

✓ Saved

Which calls provide information about initialization parameters that are applicable to an entire web application? Choose two.

- ☐ `ServletConfig.getInitParameter(String)`
- ☒ `ServletContext.getInitParameterNames()`
- ☒ `ServletContext.getInitParameter(String)`
- ☐ `ServletConfig.getInitParameters()`

Question 26**1 points**

✓ Saved

Which is most logically stored as an attribute in session scope?

- ☒ An object representing a user who has just logged into the system.
- ☐ A database connection object used by all web components of the system.
- ☐ A copy of an initialization parameter
- ☐ A copy of a query parameter entered by a user.

Question 27**1 points**

✓ Saved

Which are true about the RequestDispatcher interface? Choose two.

- ☒ Depending on the class whose method creates a RequestDispatcher, the path to the resource to be forwarded to will change.
- ☒ Of its two methods, forward() is used most frequently.
- ☐ If your servlet invokes RequestDispatcher.forward, it can send its own response to the client before, but not after the invocation of forward.
- ☐ Its methods take the following arguments: a resource, a request, and a response.

Question 28**1 points**

Save Answer

If a servlet is invoked using the forward or include method of RequestDispatcher, which methods of the servlet's request object can access the request attributes set by the container?

- ☐ getRequestDispatcher
- ☐ getCookies
- ☐ getRequestAttribute
- ☒ getAttribute

Question 29**1 points**

✓ Saved

The ServletConfig init() method can be used to initialize the Servlet just before the first client request comes in.

- ☒ True
- ☐ False

Question 30**1 points**

✓ Saved

How should servlet developers handle the HttpServlet's service() method when extending HttpServlet?

- ☐ They should override the service() method in most cases.
- ☐ They should call the service() method from doGet() or doPost().
- ☐ They should call the service() method from the init() method.
- ☒ They should override at least one doXXX() method (such as doPost()).

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<https://servletjspquestionsanswers.blogspot.com/2017/12/questions-and-answers.html>

<https://testmozusercontent.com/q/918645/student/review>