State Management Quiz

1. Can post requests be bookmarked? What are the problems?

Post request can not be bookmarked, the problem is the URL, because in post request it is always encrypted and the parameters are not visible in the browser.

2. What is the purpose of request dispatching?

The purpose of request dispatcher is to forward a request from the servlet to another resource (servlet, jsp, html on the server) or to include the content of a resource in the response.

3. What is the difference between redirect and request dispatch?

The main difference between a redirection and request dispatching is the first one makes the client create a new request to get to the resourse, the user can see the URL while request disoatching get the resourse in same request and URL does not change.

Anothe diffenrence sendRedirect() works on response object while request dispatch works on request object

4. What is an attribute ?

An attribute is an object thet is used to share information in a web app. Attribute allows Servlets to share information among themselves. Attributes can be set ann get from one of the following scopes: request, session, application

5. What is the difference between attributes and parameters?

Attributes are objects on the server. They promote communication between components. Whereas input parameters are text that must be accessed and converted by a servlet. This is the main mechanism web app use to send the information from the browser to the server.

6. What are dangers of using attributes?

The problem using attrbutes is it is not thread safe in the global scope

7. What does it mean to say that http is stateless? Give an example of a stateful protocol.

HTTP is stateless protocol, which means that after a web server response to a request, there is no memory of the request or who sent it. It means the client and the server are aware of each other during a current request only. Afterwards, both of them forget each other. Some examples of stateless protocol are TCP

8. Give 5 different methods for maintaining state information (count each attribute scope as one method).

1. Request scope.- destroyed when servlet finishes processing request.
2. Session scope.- destriyed when user closes browser.

3. Application scope.- destroyed when container stopped.
4. Cookies.- saved on the browser, they can be temporary or permanent.
5. Hidden fiels on a form

9. How long does a session last?

A session last until it is invalidated or until the settled value is over
10. What is a cookie, and how long does a cookie last?

A cookie is a small piece of information thet is persisted between the multiple client requests.
11. What is the purpose of URL rewriting?

The purpose of URL rewriting is, if the client has disabled cookies in the browser then session management using cookies does not work. In that case URL rewriting can be used as a backup.
12. Why does the request attribute report 'null' for the maintaining state demo?

The reason for the resquest attribute to be null is, the request scope always destroyed when servlet finishes processing request.