

Homework Assignment 1 (25 Questions)

(Due 9/18/2019 Wed)

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1. The Tomcat server implements the *entire* Java EE specification.

(a) true ☒ (b) false

2. It is possible to create multiple servlet instances for a servlet in a Java web application when necessary.

☒ (a) true (b) false

3. A servlet can have multiple logical names.

☒ (a) true (b) false

4. During a servlet's life cycle, its `init()` method can be called multiple times.

(a) true ☒ (b) false

5. In a Java web application, creating a database connection in the `init()` method of a servlet is *always* a good way to do.

(a) true ☒ (b) false

6. When we send binary content in an HTTP request, which of the following parts of the HTTP request contains the binary content?

(a) the request line (b) the request headers ☒ (c) the message body

7. There are only two HTTP methods: GET and POST.

(a) true ☒ (b) false

8. Every time a client request arrives, the Container creates a new servlet *instance* to process the request.

(a) true ☒ (b) false

9. In your web application, the Java classes in which of the following folders will NOT be loaded into the server *automatically*? (Assume that [Tomcat] represents your Tomcat installation directory; and [WebApp] represents the context root of your web application.)

- (a) [Tomcat]/lib ☒ (b) [WebApp]/lib (c) [WebApp]/WEB-INF/lib
(d) [WebApp]/WEB-INF/classes

10. How to configure a servlet using an annotation with the URL pattern: /countServlet.

Answer: @WebServlet("/countServlet")

11. You can send parameters to a servlet in both the *request line* and the *message body* in one HTTP request.

- ☒ (a) true (b) false

12. If you want to send large amount of data to a server, which of the following HTTP methods should you use?

- (a) GET ☒ (b) POST

13. If you want to let your users bookmark your page with specific set of parameters, which of the following HTTP methods should you use to request this page?

- ☒ (a) GET (b) POST

14. If you do not want to allow other people to view the user's sensitive data, which of the following HTTP methods should you use to send the data?

- (a) GET ☒ (b) POST

15. When you need to upload files from a page, which of the following HTTP methods should you use to send the data?

- (a) GET ☒ (b) POST

16. As Java programmers, do we need to call the `service()` method explicitly in a servlet?

- ☒ (a) yes (b) no

17. Which of the following data formats should be used when you need to upload files?

- (a) `application/x-www-form-urlencoded` (b) `multipart/form-data`

18. Which of the following data formats is the default content type for an HTTP request?

- (a) `application/x-www-form-urlencoded` (b) `multipart/form-data`

19. What is the default HTTP method?

- (a) `GET` (b) `POST`

20. The query parameters and the form parameters are retrieved in different ways in your servlets.

- (a) `true` (b) `false`

21. When we send a set of parameter values using checkboxes to send to a servlet under the same parameter, which of the following methods should we use in the servlet?

- (a) `getParameter` (b) `getParameterValues` (c) `getParameterMap`

22. In a Java web application, all the context `init` parameters can be accessed by all the servlets in this web applications.

- (a) `true` (b) `false`

23. Every time when you need to change any context `init` parameter, you have to re-compile some of the Java classes in the Java web application.

- (a) `true` (b) `false`

24. It is possible to change the databases in your web applications without re-compiling your Java code in your Java web applications.

- (a) `true` (b) `false`

25. In order to change a servlet's `init` parameters without recompiling the servlet, which of the following ways should be used to do the configuration?

- (a) in `web.xml` (b) using annotation