

## EE 461L - Midterm Review

### Example Questions:

1. What are the disadvantages and advantages of using HTTP GET over HTTP POST? How are the variables passed through in HTTP GET? Give an example of the constructed URL.

Advantages: URL can be bookmarked. Disadvantages: Security risk for sensitive information like passwords because variable values are passed via URL, and a limited number of characters can be passed in the URL.

An example HTTP GET URL: `www.example.com/examresults?idnumber=123`

2. List the associational relationships you could see in a class diagram, and give a brief description of each. Give an example showing how each is represented in UML.

Please see the UML lecture slides.

3. Where should I put a new '.jsp' file in order for it to be publicly accessible by url when my app is deployed?

- a. `src/main/java`
- b. `src/main/appengine`
- c. `src/main/webapp`
- d. `src/main/webapp/WEB-INF`

**Answer: c**

4. In Git, how do I check what the different remote URLs that I am using in the terminal?

**git remote -v**

5. In a sequence diagram, what is the dotted line that extends downward from an actor?

**lifeline**

6. You created a feature branch and it works wonderfully. It is ready for the master branch. Name two methods that allow you to incorporate work from one Git branch into another. How are these two methods different?

The two methods to accomplish this are `git merge` and `git rebase`. `git merge` is the simplest of the two options. It essentially smashes the two branches together and requires a merge commit. `Rebase` does not require a commit. Instead of smashing the two branches together, it moves the feature commits to a new location.

7. Check your class notes.

8. Briefly describe Don Norman's critique of the Google front page.

9. What effect does clicking the link produced by the following have?

```
<a href="#blorg"> something... </a>
```

Scroll to section with id blorg.

10. Write a line of JavaScript that gets the element with id greeting and changes the content of that element to hello.

```
<script>
document.getElementById("greeting").innerHTML = "hello";
</script>
```

11. Write the necessary JSP code to display the guestBook name in an h1 element on the page.

```
<%@ page contentType="text/html; charset=UTF-8" language="java" %>
<%@ page import="java.util.List" %>
<%@ taglib prefix="fn" uri="http://java.sun.com/jsp/jstl/functions" %>

<html>
  <body>
    <%
      String guestbookName = request.getParameter("guestbookName");
      // add your code
    %>
    <h1><fn:escapeXml(guestbookName) /></h1>
  </body>
</html>
```

Answer:

```
<%@ page contentType="text/html; charset=UTF-8" language="java" %>
<%@ page import="java.util.List" %>
<%@ taglib prefix="fn" uri="http://java.sun.com/jsp/jstl/functions" %>

<html>
  <body>
    <%
      String guestbookName = request.getParameter("guestbookName");
    %>
    <h1><%= guestbookName %></h1>
  </body>
</html>
```