HTML & CSS

1. What is wrong with the following HTML snippet? (max 1 sentence, 1 point)

```
<div>
  This is a <a href="#">link</a>
</div>
```

2. What does the following CSS snippet do? (max 1 sentence, 1 point)

```
p, span strong {
  font-style: italic;
}
```

HTTP

- 3. The most commonly used HTTP methods are GET, PUT, DELETE and POST. Which one of these is neither Safe nor Idempotent and why? (max 3 sentences, 2 points)
- 4. Which of the following are true about cookies? Select all that apply. (1 point)
 - a. Cookies can expire
 - b. Browser automatically requests for cookies from a standardized URL
 - c. Cookies are included in the head element of html pages
 - d. Cookies are often used in implementing sessions
 - e. Cookies are given in the HTTP headers
 - f. Cookies are given using the link tag and loaded as separate files
 - g. Cookies are always set using Ajax

JavaScript & jQuery

- How does the Same-Origin-Policy affect using javascript? (max 2 sentences)
 (1 point)
- **6.** Explain briefly **what happens** in the following lines of jQuery/JS code. You can refer to the line numbers in your explanation. **When** are the different parts of the code executed? **(3 points)**

```
1. $(document).ready(function() {
2.  var code = ['function', 'method', 'closure'];
3.  $.each(code, function(index, value) {
4.  $("#menu").append("" + (index+1) + ". " + value + "");
5.  });
6. });
```

APIS

7. Explain briefly what is meant by REST and how it works (max 5 sentences, 3 points)

Sessions & Security

- 8. Mallory is writing a blog post on a blogging service where she wrote the following as a title for the post. The **beginnings** of the texts she wrote are shown below. What is she trying to do in the two cases? Name the attacks and explain them briefly. (2 points, 1 for each)
 - a) Cat<script> rest of the text not shown
 - b) Cat'); INSERT INTO rest of the text not shown
- Explain briefly the basic idea of Cross-Site Request Forgery (CSRF)? (max 3 sentences)(2 points)

Django

- 10. Assume you have a working Django view. What (if any) changes do you need to do to make so that this view can be called also using AJAX? Why? (max 4 sentences) (2 points)
- 11. Which of the following statements are true for Django templates? (1 point)
 - a. Templates are typically rendered client-side
 - b. Templates can inherit other templates
 - c. Variables can be used in templates this way: {{variable name}}
 - d. Templates can contain and execute arbitrary Python code
 - e. Views can provide data to templates
 - f. Templates can specify any HTTP Headers for the response