

# Web Languages and Technologies

Faculdade de Engenharia da Universidade do Porto  
26th January 2017

Duration: 2h / No Consultation

Name: \_\_\_\_\_

Number: \_\_\_\_\_

**Note:** In multiple choice questions, you lose  $\frac{1}{3}$  of the grade for each wrong answer but you can select more than one option.

1 val.

1. In order for two *inputs* with type *radio* to be considered in the same group, they must...

- ☐ Be in consecutive lines.
- ☐ Have the same *value* attribute.
- ☒ Have the same *name* attribute.
- ☐ Have the same *group* attribute.

1 val.

2. What CSS selector should we use to select the title of the first article having class *featured*?

- ☐ `article.featured :first-child h2 { ... }.`
- ☐ `article.featured h2:first-child { ... }.`
- ☐ `article:first-child .featured h2 { ... }.`
- ☒ `article.featured:first-child h2 { ... }.`

1 val.

3. A *Session Hijacking* attack is done by...

- ☐ Changing a session cookie using CSRF.
- ☒ Obtaining a session cookie that was sent insecurely.
- ☐ Forcing a user to use a certain session cookie.
- ☐ Taking advantage of cookies stored in the browser in clear text.

1 val.

4. Is a password, that was hashed with a strong cryptographic hashing algorithm but without using a *salt*, virtually impossible to reverse?

- ☒ It is never possible to reverse.
- ☐ It is always easy to reverse.
- ☐ It is possible to reverse if we know what algorithm was used.
- ☐ Only if the password is large and complex.

1 val.

5. When browsing a web site whose URL starts with *https://* we can always be sure...

- ☒ The communication is encrypted.
- ☐ A *Man in the Middle* attack is not possible.
- ☐ The server is using version 2 of the HTTP protocol.
- ☐ The HTML version is 4 or above.

(continues on the other side...)

1 val.

6. In PHP, the *strpos* function returns the position, starting in 0, of the first occurrence of a *string* inside another *string*; or *false* if the *string* is not found. After the following code, which is the correct way to test if the *string* has not been found?

```
$pos = strpos($search, $test);
```

- ☐ if (!\$pos) echo "Not found";
- ☐ if (\$pos != true) echo "Not found";
- ☒ if (\$pos === false) echo "Not found";
- ☐ if (\$pos == false) echo "Not found";

1 val.

7. In Javascript, a function is...

- ☐ A prototype.
- ☒ An object.
- ☐ A class.
- ☐ A context.

1 val.

8. In XPath, what is the default axis?

- ☐ element
- ☐ parent
- ☐ comment
- ☒ child