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