

Web Languages and Technologies

Faculdade de Engenharia da Universidade do Porto
12th 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. Which one of these elements is **not** mandatory in a valid HTML document?

- ☐ The *head* element.
- ☒ The *section* element.
- ☐ The *body* element.
- ☐ The *title* element.

1 val.

2. What elements are selected by the following CSS selector?

`header h1, h2 { ... }`

- ☐ *h1* and *h2* elements inside a *header*.
- ☐ All *h1*, *h2* and *header* elements.
- ☒ *h1* elements inside a *header* and any *h2* elements.
- ☐ Does not select any element.

1 val.

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

- ☐ Memorizing and copying the users session cookie.
- ☐ Steal a session cookie that was sent insecurely.
- ☐ Taking advantage of clear text cookies.
- ☒ Forcing a user to use a certain session cookie.

1 val.

4. Is it a good idea to hash passwords in the browser, using Javascript, instead of doing it in the server?

- ☐ No, because it is slower.
- ☐ Yes, because it prevents the password from being intercepted.
- ☒ No, because some of the advantages of hashing passwords are lost.
- ☐ Yes, because it normalizes the length of the passwords.

1 val.

5. In the HTTP protocol, are safe methods also idempotent?

- ☐ Never.
- ☒ Always.
- ☐ Only on secure connections.
- ☐ Only if parameters are not sent using the GET method.

(continues on the other side...)

1 val. 6. In PHP, when a variable is declared as *global* inside a function, that variable:

- ☐ Becomes available to all scripts in the same folder.
- ☐ Cannot be used in another function.
- ☐ Becomes available in all the other functions.
- ☐ Refers to a global script variable.

1 val. 7. In Javascript, the keyword *this* always refers to...

- ☐ The current object.
- ☐ An object representing the document.
- ☐ The current execution context.
- ☐ An object representing the browser.

1 val. 8. In XPath, the principal node type...

- ☐ Depends on the used axis.
- ☐ Is always *element*.
- ☐ Depends on the context node.
- ☐ Always has to be specified.