

Web Languages and Technologies

Faculdade de Engenharia da Universidade do Porto
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Duration: 2h / No Consultation

Name: _____

Number: _____

- 1 val. 1. In which case is it correct to use the *aside* HTML element?
- ☐ When it doesn't contain a *header*.
 - ☐ When the element is to be placed in one of the sides of the page.
 - ☐ When it contains navigation elements.
 - ☒ When it contains secondary content.
- 1 val. 2. What's the correct way to prevent a *Cross-Site Request Forgery* attack?
- ☒ Generate and use a different security *token* for each session.
 - ☐ Always have a confirmation dialog when sending sensitive data.
 - ☐ Always use the POST method in forms.
 - ☐ Always send data using AJAX.
- 1 val. 3. Passwords should always be cyphered using a secure hashing algorithm. What kind of attack is prevented by using a slow hash function?
- ☐ Rainbow Tables
 - ☐ Dictionary Attack
 - ☒ Brute Force
 - ☐ Man in the Middle Attack
- 1 val. 4. In the HTTP protocol, how are *cookies* transmitted?
- ☐ On the *browser's* address bar.
 - ☐ In an AJAX response using JSON.
 - ☒ As an HTTP header.
 - ☐ They are stored in the server.
- 1 val. 5. In PHP, when we declare a variable inside a function as *global*, that variable:
- ☒ Is a global variable of the script.
 - ☐ Becomes available to all other scripts inside the same folder.
 - ☐ Becomes available to all other functions.
 - ☐ Cannot be used in another function.

(continues on the other side...)

1 val.

6. Suppose that the following *jQuery* code is defined inside the *ready* event of an HTML document. Analyse the code carefully and choose the expected behavior:

```
1 | $('a').click(say('Hello'));
2 |
3 | function say(message) {
4 |     alert(message);
5 | }
```

- ☐ Nothing happens.
- ☐ An alert is displayed with the message *Hello* whenever a link is clicked.
- ☒ An alert is displayed with the message *Hello* as soon as the page loads.
- ☐ The page won't load.

1 val.

7. Explain briefly what nodes are select by the following *XPath* expression:

`./person/job`

1 val.

8. In XSD, can a *complexType* contain text?

- ☐ Yes, as long as it doesn't contain other XML elements.
- ☐ Yes, as long as the *text* attribute is equal to *true*.
- ☐ Yes, as long as the *mixed* attribute is equal to *true*.
- ☐ No, only *simpleType* elements can contain text.