Web Languages and Technologies

Faculdade de Engenharia da Universidade do Porto
19th January 2016

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.