

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 a news site, what is the most semantically correct way to describe an important news item?

- ☒ `<article class="important">...</article>`
- ☐ `<div id="important" class="newsitem">...</div>`
- ☐ `<article id="important">...</article>`
- ☐ `<div id="newsitem" class="important">...</div>`

- 1 val. 2. When examining some server logs, a system administrator noticed the following HTTP request:

```
post_comment.php?title=&body=<script>>window.onload = function() {var link=document.
getElementsByName("a");link[0].href="http://do-something.com/";}</script>
```

What kind of vulnerability was being exploited?

- ☐ Cross-Site Request Forgery
- ☐ Javascript Vulnerability
- ☐ SQL Injection
- ☒ Cross-Site Scripting

- 1 val. 3. Passwords should always be cyphered using a secure hashing algorithm. What kind of attack is prevented by using different *salts* for each password?

- ☐ Brute Force
- ☐ Dictionary Attack
- ☒ Rainbow Tables
- ☐ Man in the Middle Attack

- 1 val. 4. Where are session variables stored in PHP?

- ☒ Files on the server
- ☐ Proxy servers
- ☐ Cookies on the browser
- ☐ Browser address bar

1 val. 5. What is printed when the following PHP code is executed?

```
1 <?php
2     $foo = 10;
3
4     function add_to_foo($value) {
5         $foo = $foo + $value;
6     }
7
8     add_to_foo(5);
9     echo $foo;
10 ?>
```

10

1 val. 6. Why must the initialization code of *jQuery* be called inside a *ready event handler* instead of being called directly?

```
1 $(document).ready(setUp);
2
3 function setUp() {
4     // code goes here
5 }
```

1 val. 7. Explain briefly what we mean when we say that the HTTP protocol is a stateless protocol.

HTTP being stateless means no state is kept on the server about the HTTP session. Each request from client to server must contain all of the information necessary to understand the request, and cannot take advantage of any stored context on the server. Session state is therefore kept entirely on the client.

1 val. 8. What is the main objective of the XSD language?

- ☐ Generate XML files
- ☐ Print XML files
- ☐ Compile XML files
- ☒ Validate XML files